

MANORAMA YEARBOOK 2007

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MANORAMA YEARBOOK 2007

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*Responsible for the selection of news under the PIS Act.

A Year of Achievements

I have great pleasure in offering a hearty welcome to all of you to the 42nd edition of Manorama Yearbook.

It is a happy coincidence that the publication is coming out when India is celebrating one of its greatest victories in the economic sphere. The country has achieved a record of spectacular takeovers of foreign companies and our new image as a rising global giant has been internationally recognised. The economic boom is real and palpable and full of greater promises. Little wonder our Cover Story is on the renaissance of manufacturing and the new vistas it has opened up for Indians.

Twenty special articles on various aspects of Indian life and society by experts constitute an important segment of this edition of the Yearbook. Areas covered include agriculture, industry, energy, literature, science and sports. UN reforms, status of women, Gulf migration and the corruption scene are other topics we have discussed. Special features deal with books, films, cars, explorers, the history of Lok Sabha since 1951 and the top 300 Indian cities. All regular features have been carefully updated, with a special treatment given to an enlarged GK section.

It is gratifying to note that Manorama Yearbook is being used increasingly by educational and training institutions to prepare Indian youth for successful careers. The book is also a constant companion to scholars, researchers, executives and the general public, who find it as a reliable reference guide on India and the world.

We have pleasure in gifting every Yearbook 2007 buyer with a CD of 186 maps to equip them with historical and geographical inputs.

I am grateful to all who have helped us reach the present heights. Let me take this opportunity to thank our contributors, advertisers and well-wishers for their support.

My best wishes for a happy new year.



K.M. Mathew

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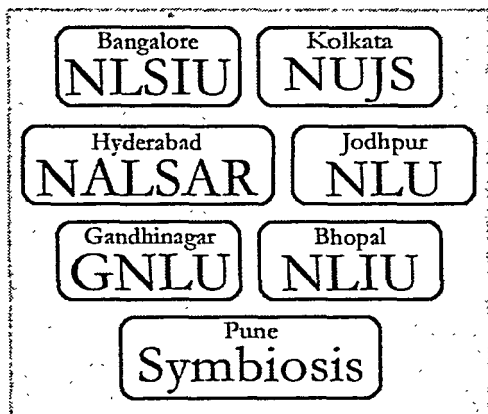
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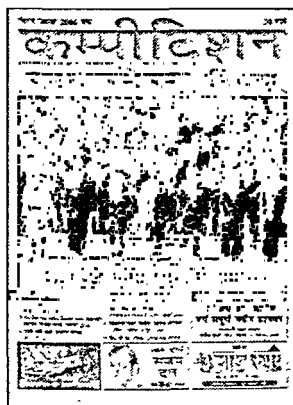
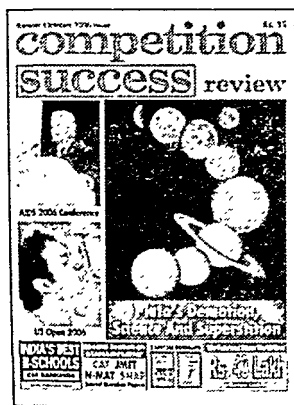
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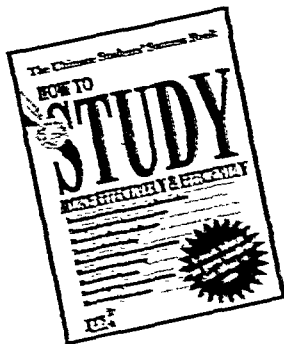
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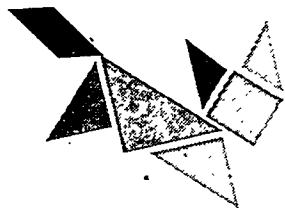
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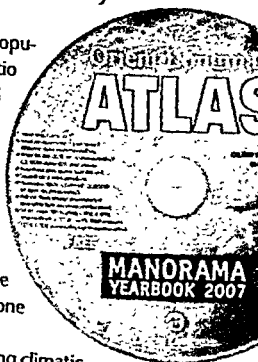
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The Great Indian Boom — The Renaissance of Manufacturing

G. Vijaya Raghavan & V.S.M. Nair

India has in the recent past been witness to strong stirrings of an industrial renaissance. The resurgence of the country's manufacturing sector has been nearly magical, throwing up promises of an emerging manufacturing power.

Reforms of economic regulations set in motion in 1991 unlocked India's enormous growth potential and unleashed unstoppable entrepreneurial forces. The Indian enterprises have become more confident, competitive, combative and ambitious about their future than ever before. They have, to compete globally, been investing to build scale in critical areas of production, distribution and marketing.

Corporate India is firing on all cylinders. As on June 2006, about Rs. 5 lakh crores project investments for manufacturing are outstanding, a historic high, and 37% higher than that of corresponding date last year. This level of huge capex commitment is warranted mostly on account of peaking of capacities, the utilization of which ranges 80% to 90% in many industries.

"The 'Hindu rate' of growth was history, as was socialist self-denial. In its place arrived an ebullient culture and a courageous, ambitious new spirit".

This essay attempts to capture the different facets of this fascinating story, warts and all.

India Inc. Joins the High Table India is taking on the world

In the immediate past, India has been witnessing Mergers and Acquisitions (M&A) straddling sectors and geographies, at an unprecedented scale involving mind-numbing numbers. Deloitte Touche Tohmatsu (DTT) estimated the value of Ms & As deals in India in 2005 at \$18 billion as against \$6.1 billion in 2004. The M&A deals during the first half of 2006 amounted to \$25.6 billion, an increase of 220% over the corresponding period in 2005. Of course, what is most fascinating is that many Indian firms have become MNCs themselves.

In 2005, FDI out of India exceeded FDI into India! Direct investment abroad by the Indian manufacturing sector has increased from \$ 0.17 billion in 2000-01 to 1.06 billion in 2004-05, an increase of 526% during a mere 4-year period. In the global M&A ranking of DTT, India moved up 12 notches from 29 to 17.

Around 80 cross-border deals worth over \$ 6.0 billion were cut during the six months, January to June 2006, as compared to 136 deals valued at \$4.7 billions for the calendar year 2005. The average deal size increased from \$32 million in 2005 to \$47 million in the first half of 2006.

The policy relating to Indian investments overseas has been liberalized to help the industry, to be competitive globally, access raw

materials, new markets and brands, technologies and established distribution network.

Many large Indian companies in basic industry such as steel, viscose fibre and copper have been acquiring upstream companies from around the world as backward integration.

Let us look at a few samplers.

Jindal Steel bags mining rights for the largest single iron ore mine in the world. The Bolivian mine has potential reserves of 40 billion tonnes of which Jindal acquired the rights for 20 billion tonnes nearly the entire reserves in India. Jindal will be investing \$ 2.3 billion in the next 10 years for mining and setting up a steel plant.

The global foot print of Bharat Forge, the second largest producer of forgings in the world and the most profitable, is getting bigger and bigger, having taken over 6 plants abroad.

Asian Paints is among the 10 largest decorative paints makers in the world with manufacturing facilities across 24 countries.

Essel Propack, world's largest manufacturer of lamitubes contributing nearly 30% of global supply, has 17 plants in 11 countries.

Continental Engine, Gurgaon acquired the European operations of the Dutch firm, Vege Motors and is planning to acquire the US operations of Vega as well.

Tata Group has been aggressively buying up foreign assets. Tata Steel bought Thailand's Millennium Steel for \$400 million and Singapore's Natsteel, as part of a \$20 billion expansion programme over the next 15 years. Tata Motors took over the truck operations of Daewoo for \$ 118 million to access markets in Korea and China. Tata chemicals acquired Egyptian fertilizers firm SAE for \$ 519 million. Tata Coffee swallowed US-based Eight O' Clock Coffee (EOC) for \$ 220 million (Rs. 1015 crore), through a combination of equity and non-recourse debt. Pick-

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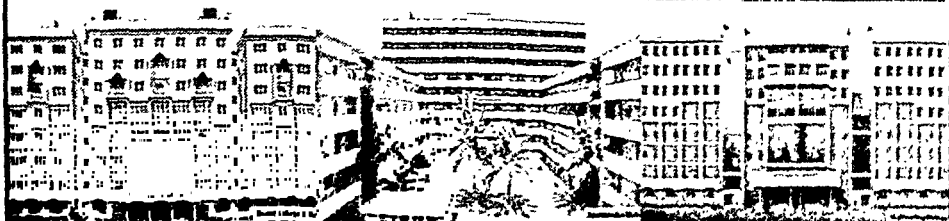
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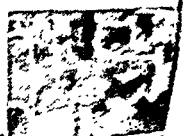
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ing up a 30% stake in US-based Glacean (vitaminised water) for \$677 million was the biggest cross-border deal in the private sector to date. By the end of the decade Tata group including Tata Tea, Tetley, Tata Coffee, EOC and Glacean combine to become one of the largest beverage players in the world.

Essar Steel is investing \$ 1.2 billion in a steel plant in Trinidad and Tobago.

Sundaram Fasteners acquires a plant in China

Hindalco acquires Straits Ply, Australia for \$ 56.4 million and United Phosphorous takes over Oryzalia, USA for 21.3 million.

Ballarpur Industries is acquiring Malaysia's largest pulp and paper company Sabah Forestry Industries in a \$ 261 million deal.

Videocon bought out CPT business of Thomson, US for \$ 290 million. Videocon, India's largest consumer electronics and home appliances company with a market capitalization of over \$2 billion, with production facilities in India, Italy, Eastern Europe and Mexico, is planning to produce 6 million TV sets this year, thereby becoming one of the top ten TV manufacturers in the world. Videocon is in the final rounds of discussion for taking over Daewoo's consumer electronics business worldwide, a deal worth about \$700 million.

Ashok Leyland is acquiring the truck business of AVIA, headquartered in the Czech capital, Prague. This will secure for the company a beachhead in the EU and East European markets.

Spentex has acquired a textile company in Uzbekistan in an \$81 million deal, the biggest cross border M&A deal in the textile sector. The acquisition would make Spentex India's largest yarn manufacturer.

The most purposeful predators have been Indian pharma companies. India has broken into the top three pharma industries in the world. The pharma sector's overseas acquisitions

in 2005 were more than 30 valued at over \$ 1.3 billion. They are after the billions of dollars worth of patents expiring thereby opening up huge market opportunities for generics.

Dr. Reddy's Labs acquired Betapharm Company, Germany's fourth largest generics player for an enterprise value of \$ 480 million. For Reddy's, Beta Pharma will be the front end for marketing and distribution across Europe and use the Indian manufacturing operations as the back end.

Ranbaxy buys Romanian Terapia for \$ 324 million for Pan European synergies. Ranbaxy acquired another generics Belgian and Italian companies for undisclosed amounts.

Sun Pharma acquired the assets of Able Labs in the United States for \$23 million.

Matrix India took over Belgian company Doc Pharma for \$263 million.

Lupin Ltd. has acquired 51% stake in the Belgian pharma company Dafra which has an anti-malaria portfolio of products. With this acquisition Lupin has become a global force in the institutional tender business along with anti-TB and AIDS in its active pharma ingredients business to be catered to from its WHO-approved facility at Aurangabad.

Aurobindo Pharma has 8 subsidiaries across the world, two JV's in the US and a new acquisition in China.

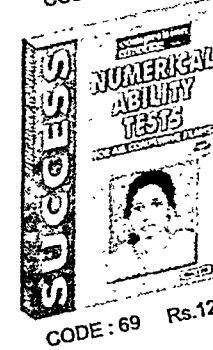
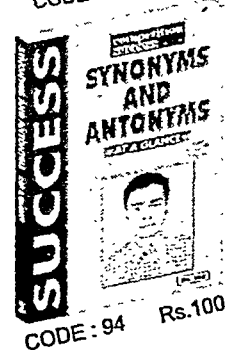
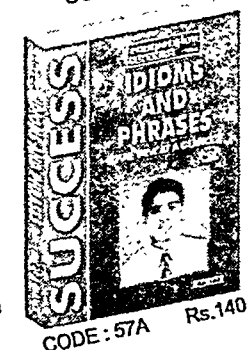
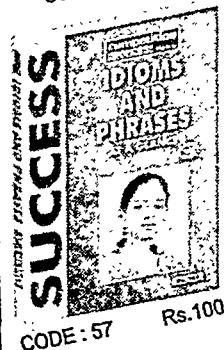
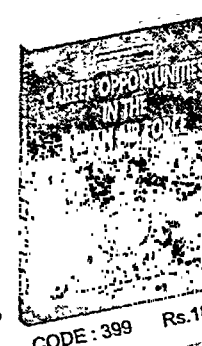
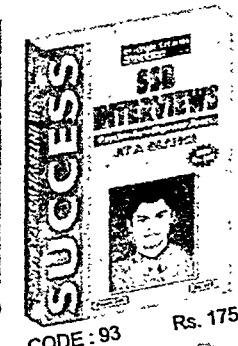
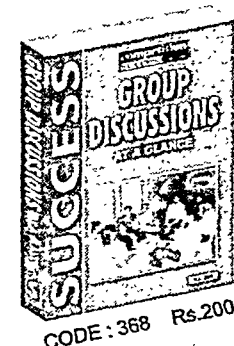
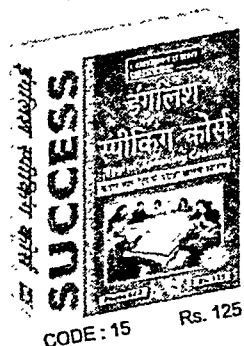
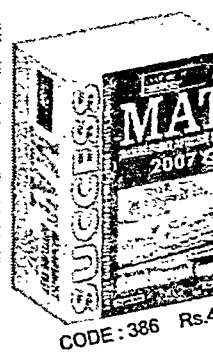
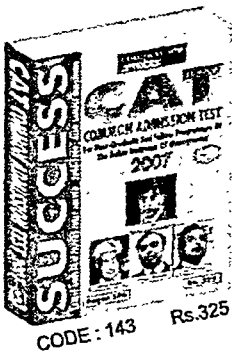
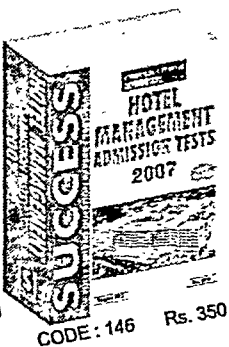
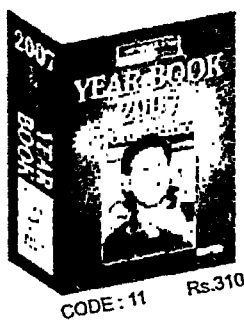
Jubilant Organosys raised \$ 200 million through FCCBs and is planning to raise another \$ 125 million for inorganic growth – for a faster learning curve, better market access, new client relationships and more technology platforms – through acquisition.

Domestic Ms & As.

Indian manufacturing companies, across sectors, have been ramping up capacities substantially through domestic expansion and global acquisitions.

Total value of acquisitions in 2005, for instance, amounted to Rs. 104,202 crores,

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ly double the previous year and five times level two years ago. Manufacturing accounted for about Rs. 40,000 crores. The number of merger deals rose to 375, an average of close to 50% over 2004. (Most of these deals being based on equity swap, arriving at their values is difficult).

Indian companies enjoyed an unprecedented rise in net profits over the past four years on account of increasing margins achieved through lower interest costs and strong sales momentum. Companies are trying to leverage strong balance sheets and high market valuations to buy growth through M&A.

Acquiring market share or new technologies, expanding capacity thereby deriving the benefits of scale, entering a new market, consolidation or simply keeping the competition at bay are some of the underlying inducements for inorganic growth. Focusing on the core and shedding other activities also led to significant M&A activity among Indian companies. Group companies keep merging their businesses to leverage the synergy in their operations and reduce overhead costs.

This phenomenon may slow down because the cost of acquisition, given the perceived value of such assets, is in excess of their replacement cost.

Where is the money for all this?

Most transactions are leveraged deals with 50-60% of debt and some deferred considerations. Subsequently they raise less expensive FCCBs (Foreign Currency Convertible Bonds) or GDRs (Global Depository Receipts) and retire the high-cost bridge loans.

Indian Inc's hunger for capital has led to the country accounting for over two-thirds of total FCCB in the Asia-Pacific market, excluding Japan during 2005. It also amounted to around 10% of global issuance.

Indian corporates raised an all-time record of \$ 17.13 billion including \$5.21 billion

through FCCB offerings from the overseas markets in 2005-06.

Funds raised by Indian companies from overseas markets during the first half of the calendar year 2006 were up 63% over the comparable period in 2005.

They had also mobilized huge quantum of capital through public issues including Initial Public Offerings (IPOs). Indian companies mopped up close to Rs. 25,000 crores in 2005-06 to fund expansion, modernisation and diversification projects. During the first 8 months of 2006, 51 companies mobilized Rs. 10,200 crore, 32% higher than what was mobilized during the corresponding period in 2005. During the next twelve months equity offerings of Rs. 1, 00,000 crore would hit the market. The current investment boom, just like the consumption boom, is fuelled primarily by domestic resources. Corporate balance sheets have been significantly strengthened over the past few years by an improvement in profitability and much of the capital investment is linked to international demand.

The inflow of funds into India is growing at an exceptionally high rate. Foreign Direct Investment in 2005-'06 was \$7.8 billion, 37% higher than the previous year; Foreign Direct Investment grew by 158% between January and March 2006. Portfolio investment amounted to \$12.5 billion in 2005-'06 as against \$9.3 billion in the previous year.

Private Equity investments have also been growing at a frenetic pace. PE and Venture Capital firms have crossed \$3.4 billion investments during the first six months of 2006 as against \$ 2.2 billion for the whole of 2005. This source has become mainstream for companies looking for capital.

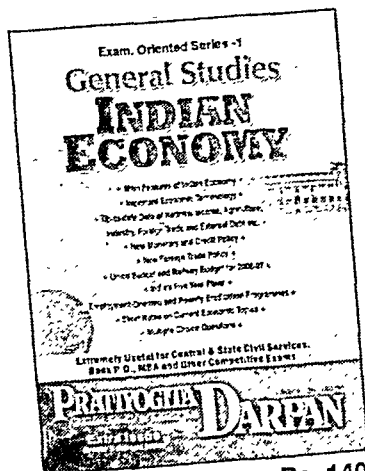
Leveraging India as a sourcing base

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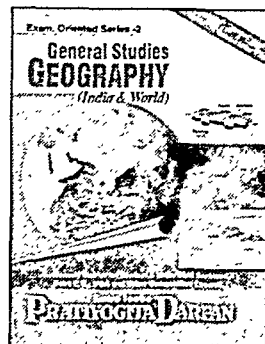
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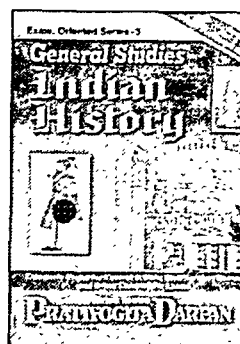


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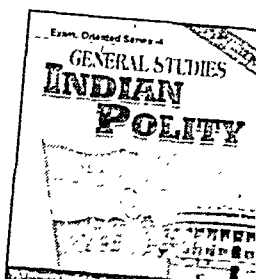
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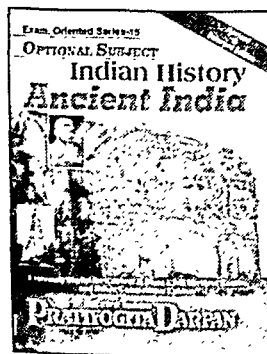
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Foxconn from Taiwan, world's second largest EMS provider, is planning to invest another \$110 million to promote a hi-tech 300 acre SEZ in association with Motorola. Victoria's Secret buys 6.5 million bras a year, about one-tenth of its global total, from a factory its parent company invested in. Forward Shoe makes one million pairs of leather shoes per year for European brand like Clarks.

It's a gold rush. BMW, General Motors and Intel and scores of smaller companies are buying up real estate. "After China, the next great manufacturing story is India- and companies are buying it, because otherwise they wouldn't be buying property".

India is increasingly becoming home to cutting edge R&D initiatives. Samsung, Cummins, Uniliver, ABB and General Motors have large and growing R&D facilities in India

(Offshore product development market in India, mostly in the IT sector, has grown ten-fold from \$300 million to \$3 billion in five years.)

World-beating Indian companies

Over a dozen companies rank among the top five global players in their segments.

Reliance is the third largest refinery in the world in terms of firms that grew through organic expansions. Hindalco is behind only four global majors. Welspun, the largest terry towel manufacturer in the world, is doubling its capacity. It recently acquired a UK-based terry towel manufacturer for Rs.125 crores. It is also setting up capacity in bed linen. Delhi-based Jubilant Organosys ranks among the top five global players in defined specialty chemical categories. It has acquired Max Industries API business to reach global size capacity. Hero Honda is the world's largest mo-

torcycle maker. Bajaj Auto ranks among the top five players in two and three wheeler segments. Both the companies are expanding their capacities to maintain leadership positions: Hero Cycles, the world's largest bicycle producer. UB Group, world's second largest producer of alcoholic beverages. Bharat Forge, Mahindra & Mahindra and Telco are among the world's top three forging, tractor and truck manufacturers respectively. Moser Baer, Delhi is among the top three manufacturers of CD (read-only memory) in the world. Once its expansion projects are on, it will become the world's third largest producer of even CD recordable and DVD-recordable. Ajan Clocks with production facilities in India and China is the largest global producer. Ranbaxy Lab. is one of the fastest growing players in the generic drug industry and Asian Paints with production facility in all the five continents are aiming for global leadership positions in the immediate future. Essel Propack is the world's largest tube manufacturer. Hindustan Inks is the largest single stream fully integrated ink plant in the world. Eveready is producing over a billion batteries a year, the third largest.

Boston Consulting Group, a US-based international strategy and management consulting firm, has recently prepared a list of 100 emerging global challengers for rapidly developing economies; 21 Indian companies figure in this list. These companies are on track to become major 21st century multinationals. Besides the three top IT companies (TCS, Infosys and Wipro), others are Reliance, Bharat Forge, Crompton Greaves, Tata Motors, TVS, Mahindra & Mahindra, Ranbaxy, Cipla, Dr. Reddy's Labs, ONGC, Hindalco, Tata Steel, L&T, Tata Tea, Videocon and VSNL.

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petitiveness", Klaus Schwab, Chairman, World Economic Forum.

India's global ranking for specific sectors are as follows:

The world's largest three-wheeler manufacturer/market and second largest two-wheeler manufacturers/market; The world's largest diamond cutting and polishing centre accounting for over 90% - the India's processors have stolen the majority of business away from the old master craftsmen of New York, Israel and Belgium; Indian textile industry is the world's second largest and the chemical industry ranks the twelfth by volume. India has broken into the top three pharma industries in the world; The third largest leather producer; Ranks second in cement production; The largest producer of milk, tea and pulses to support food processing sector; India has the largest number of listed companies across 23 stock exchanges and the third largest investor base in the world.

Importance of the Manufacturing Sector

Manufacturing creates productive employment, supports agriculture by adding value to its products besides providing the required inputs, sustains the servicing sector and spins a cycle of wealth creation. It is generally reckoned that an investment in manufacturing produces a multiplier effect of four times i.e. every rupee invested adds four rupees to GDP.

The economic relevance of manufacturing in the Indian context is indeed indisputable.

Manufacturing can unleash a virtuous cycle of innovation to enhancing productivity to improving competitiveness to providing goods at lower costs to improving purchasing power of the populace to higher demand for manufactured goods to more capacity creation to higher growth and standards of living.

The following statements say it all, the un-

derlying logic of them being so overpowering.

"..... demographics are destiny and the next ten years need 200 million jobs for new entrants..... failure to create non-farm jobs. We have not seen the move away from agriculture..... where development occurs when labour and capital move from lower value adding sectors into more dynamic higher value - adding sectors..... Inter-sectoral mobility is not undesirable but critical for growth in productivity, output and employment. Our labour markets have failed to create this mobility. We have low labour force participation(40%), low organised employment(8% of work force) and 40% are working poor (make enough money to live but not enough to pull out of poverty). India's service economy creates jobs. But manufacturing is an anaemic 17% of GDP and 13% of the workforce. The majority of our workforce (40% are illiterate) will only move away from agriculture when the unskilled jobs of manufacturing explode." Manish Sabharwal, Chairman, Timelease Services, ET, 20 June 2006.

The biggest challenge that India faces today is to generate employment for its huge labour force of unskilled or low-skilled workers, whom the services revolution has not been able to absorb. India needs a manufacturing revolution in parallel with the services revolution to be able to respond adequately to the massive challenge of employment generation and alleviation of poverty. About 10-15 million people will join the workforce annually till 2015. The country must create 7-8 million new jobs each year outside the farming, just to maintain the current level of unemployment at about 7%. The services sector will generate only a fraction of the additional jobs to be created. Manufacturing will, therefore, have to carry most of the burden of providing employment.

Manufacturing, if strengthened, can gen-

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erate about 2.5 million new direct jobs each year as against 1 million jobs created per year over the past decade. Given the multiplier effect of manufacture on trading, transport and other support services, it alone can begin to address the most challenging of all the problems facing the country.

Manufactured exports account for 70% of total exports. In the manufacturing sector technology-intensive engineering goods continue to be the mainstay accounting for 21% in the total merchandise exports followed by textiles (16%), gems and jewellery (15%) and chemicals (14%).

Manufacturing sector, accounting as it does for close to three-fourths of exports, has continued to fuel export growth. It has been growing at around 20% per annum in dollar terms.

Global trade opportunities are significantly higher in manufacturing; in 2005 global exports of goods amounted to an estimated \$10.4 trillion compared to \$ 2.4 trillion in services. This clearly underlines the significance of manufacturing sector for export growth.

Manufacturing sector is the destination for four-fifths of foreign investment in the country.

"A strong manufacturing sector is crucial for any advanced nation that aspires to pay its way in the world", E. Fingleton, Fortune, March 6, 2006.

Manufacturing on the Growth Trajectory

An apparent skewness of the Indian economy

Typically, as a modern economy progresses, the driver of economic growth shifts gradually from agriculture to low-end manufacturing, then to high-end manufacturing and thereafter to services. Indian pattern of growth over the past two decade or so has been at variance with this conventional wisdom.

During the period 1984-2005, the share

of agriculture in the country's GDP has fallen from 35% to 20% and that of industry (manufacturing, mining and quarrying, electricity, gas and water supply and construction) remained almost unchanged at about 26%. The share of manufacturing in the GDP has marginally improved to little over 15% by 2005. The relentless expansion of the services sector from 39% to 54%, within a relatively short period, has attracted lot of attention of economists and policy makers.

The skewness of the Indian economy is seen in terms of the phenomenon of about 57% of the country's labour force working in agriculture to produce just about 20% of national income. Services sector that generates 54% of national income employs only about 28% of the working Indians. Industry which can absorb unemployed and under-employed from agriculture has only 15% of the labour force.

The share of manufacturing globally is 25% of GDP; this ratio is about 37% in Thailand, 36% in China, 33% in Malaysia, 18% in Mexico and about 15% in India in 2004. The share of developed countries in the global manufacturing pie has been consistently falling. Manufacturing exports as percentage of GDP amounted to 54% in Thailand, 30% in China, 93% in Malaysia, 27% in Mexico and about 8% in India in 2004.

Taking off from this scenario, many analysts tended to surmise that manufacturing in India is dead and that India can ride on services to achieve sustained economic growth. Such a prognosis is patently premature, if not flawed. Only the growth of the manufacturing sector is expected to provide the foundation for sustained growth of the economy over the long term. And, manufacturing did grow reasonably well.

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than GDP during the last two decades. During the period 1993-94 to 2002-'03 average annual real growth rates of GDP and manufacturing were 6.0% and 7.1 % respectively. During the past four years, average annual growth of manufacturing was less than that of GDP only in one year; in 2005-'06 manufacturing recorded a growth of 9.0%, one of the highest rates of expansion ever, whereas GDP grew at 8.4%.

In terms of investment intentions, actual investments, imports and domestic production, there is a great buoyancy in capital expenditure.

Companies across different industries enjoyed high sales and high profit growth in the immediate past. Corporate India has been coming out of a decade-old investment slumber and started/announced mega new projects. The intent to invest is an indicator of private investors' confidence in the future of the economy.

Buoyant business expectations stimulated the investment tempo. Filing of investment intentions as reflected in Industrial Entrepreneurs' Memorandum, for the sectors which had ceased to have licensing requirements, picked up again from 2003 after a near-stagnation in the preceding seven years. During the period 2002 - 05 (3-year average) the number of IEMs was 5065 involving proposed investments of Rs. 2.47 lakh crores as against 4660 IEMs and an estimated investment of Rs. 0.90 lakh crores during 1992-94(3-year average).

Among the different industry groups, during the period 1993-94 to 2005-06, two-digit average annual increases in indices of industrial production were recorded by beverages, tobacco and related products, transport equipment, other machinery and equipment, segments of textiles, non-metallic mineral products, basic chemicals and chemical products and paper and paper products. Manufacturing as a whole recorded an average

annual growth of 11.2% during this 12-year period.

Index of Industrial Production for manufacturing grew 11.8% during the first quarter of 2006-07 as compared to 9.9% during the corresponding figure last year.

The performance of the Small Scale Industrial sector has also been reasonably good. Share of SSI sector in the gross industrial value added in the economy is around 40%; about 45% of total manufactured exports are directly accounted for by the SSI sector

Although India's share in world exports continues to be less than 1%, the country's manufacturing sector is engaging more with the global economy than ever before. The manufacturing exports to manufacturing GDP ratio has exceeded 0.6 mark, which was 0.2 mark in the early 90s; in other words, more than half of the manufactured sector's output is meeting global demand. Overall exports to GDP ratio, however, is extremely low at 0.12. Import penetration ratio (manufacturing imports ÷ total domestic supply of the manufactured products) is on the rise as well. India was the fastest growing importer in the world in 2005.

A significant feature of the recent industrial resurgence pertains to structural transformation of the industry. During the current industrial rebound, the Capital Goods sector (the 'Mother' of manufacturing) recorded double-digit growth. During the period 1993-'94 to 2005-'06, index of production of Capital Goods segment recorded an average annual growth of 13.8% as compared to 12.6% for Consumer Goods, 9.7% for Intermediate Goods and 7.5% for Basic Goods; the manufacturing sector as a whole registered a growth of 11.2%. This trend continues to gather momentum in 2006-07 as well.

Indian industry is engaged in deepening capacities driven by economic fundamentals including expanding market conditions. E

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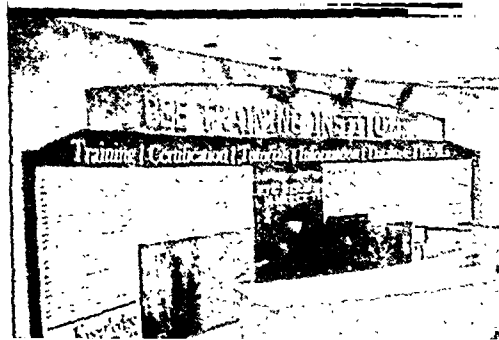
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'93 to 2005-'06 from 5.8% in the 1980s. During the last three years the growth rate accelerated to 8% per annum.

Over the past 15 years, India has been the second fastest growing large economies of the world (after China) and, of course, the fastest growing free market democracy (Never in recorded history has a democracy with even 200 million people sustained annual real GDP growth of 6% over a 25-year period). The rate of growth of the Indian economy was almost double the average global rate. Indian economy was the fourth largest contributor after US, China and Japan towards incremental global GDP growth in 2005, edging out industrial heavyweights like Germany, UK and France.

Inflation has been tamed in the recent past from 7% in 1997-98 to less than 4% in 2005. Interest rates have moved in tandem and their downswing enabled the stimulation of consumption and investment. The rupee has relatively been strong against dollar.

Foreign exchange reserves have been steadily growing for the past 15 years and are currently of the order of \$165 billion (as against \$5 billion in 1990-91!). Such a growing pool facilitated significant relaxation of restrictions on the use of foreign exchange, enabling industry to import what it wants and to service external debts and pay for all needed foreign services.

The country enjoys the lowest debt-service ratio among the emerging economies. Forex reserves are in excess of external debt by over 20%. Equally important, most of Indian external debt is long-term in nature.

Expansion of bank credit during 2005 was the fastest in Asia.

The openness of the Indian economy has been growing; trade as a percentage of GDP significantly increased from 21% in 1999-'00 to 33% in 2005-'06. Tariffs have been falling; trade alliances are expanding. Special Economic Zones — the same enclaves

of economic freedom that spearheaded China's export-led industrialization — are spreading across the country.

Robust institutional framework

India's free market economy has a legal and regulatory framework, especially the one evolved since the process of liberalization was set in motion, that rewards free enterprise, entrepreneurship and risk-taking.

The legal system supports economic liberalization and modernization when appropriate. IPRs, bankruptcy, foreign exchange control, data protection, competition and other laws have been overhauled to boost foreign investor's confidence.

The introduction of the Independent Regulatory Authority in such economic activities as the capital markets, power, telecom and insurance sector has helped promote orderly economic growth. India's healthy banking system is among the largest in the world. NPA levels of banks in India are about 3% of GDP, one of the lowest among emerging nations (This ratio is over 25% in China.). The banking system is Basel I norms compliant and moving towards Basel II. *"Whatever it takes to be good at banking, India has it by the bucket load at every level."*, The Economist, London.

India's financial sector as a whole has been one of the fastest growing sectors in the economy. It has been buoyed by increased private sector participation including an explosion of foreign banks, insurance companies, mutual funds, venture capital and investment institutions.

India has transparent, highly technology-regulated stock market defined by the modern, nation-wide on-line screen-based trading system, a T+2 rolling settlement system. India today has one of the lowest transaction costs. NSE is the third largest and the BSE, the fifth largest in the world in terms

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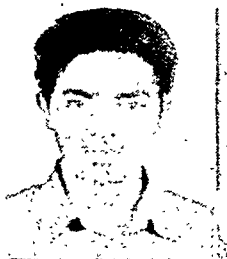
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entry of active private players has enabled capitalization of even unlisted companies.

Accounting standards are similar to those followed internationally. Many companies listed on the NYSE and NASDAQ and report their results under US GAAP.

Comprehensive Intellectual Property rights regime is in place. All IPR laws are WTO-PS-complaint with a fully functional Intellectual Property Appellate Tribunal.

Human capital, an unrivalled source

Educated, skilled, hardworking and English-speaking managers, scientists, engineers and workers represent the greatest strength of India. The country has the youngest workforce of any large economy, a status that will be maintained for long. India will be the largest contributor to the additional working-age population globally over the next few decades. Converting the growing working population into a virtuous circle — creating productive jobs- higher consumption- higher savings- higher investment- economic growth — represents the greatest promise and the greatest challenge.

According to a recent World Competition Yearbook prepared by IMD, Switzerland, India ranks 11th among 60 nations in terms of the extent that the University education system meets the competitive needs of the economy. In terms of availability of skilled labour, especially engineers, India ranks 7th.

India was ranked first for availability of qualified engineers (China is 57th and US ranks 9th). India ranks among the top three 30 nations in terms of availability of skilled labour force, as per a recent study by KPMG. India ranks second in the world (the first being Germany) in terms of the

designing and engineering capabilities. Labour productivity growth in India has been better than in Australia, Germany, UK and USA. India has one of the lowest labour cost/hour, lower than in Thailand, the Philippines and Malaysia.

India leads in the skill-based manufacturing activity such as ability to re-engineer equipment at lower cost and innovative process re-engineering. Competency of Indian senior managers is world-class; unsurprisingly many reach top positions with MNCs globally.

Because India has the most vital resource required, global players on cutting edge of technologies have set up major, highly successful production and R&D facilities in India.

Huge, growing domestic market

"The best story is one based on domestic consumption, India is one". India is one of the most attractive consumer markets in the world. Driven by a young population with access to disposable incomes and easy finance options, the consumer market has been growing at a faster clip than ever before. Consumption-led boom is on.

The size of the market in terms of the population representing 18-35 years age group with the propensity to spend is 300 million, more than the total population of most countries!

The distribution of households as per monthly income level provides a sense of the size of the middle class in the country

Income Level (Rupees per month)	No. of Households (million)
Rich (+2,15,000)	6
Consuming (45,000 to 2,15,000)	75
Climbers(22,000 to 45,000)	78
Aspirants(16,000 to 22,000)	33

A larger, richer market is ahead with the size of the economy, in PPP terms, expected to triple before 2020 in real terms.

India is rated as the world's most attractive market for mass merchant and food retailers seeking overseas growth, according to management consulting from AT Kearney's 2006 Global Retail Development Index, an annual study of retail investment attractiveness among 30 emerging markets. According to McKinsey forecasts, India will be among five largest consumer goods markets worth \$ 400 billion by 2010.

India Inc. responds to the upsides & downsides of reforms.

The benefits of economic reforms do not come alone; they come with a set of real or perceived threats. The strong performance of the manufacturing sector does seem to demonstrate that the sector exploited opportunities economic liberalization gave rise to, at the same time, managed to conquer the threats that came its way.

Key elements of reforms included:

Freeing domestic industry from licensing, barring a few sectors; the industry could expand, diversify, import whatever they wanted; was given freedom to price their products, their equity, in case of public issue, and to make overseas issues.

Restrictions on foreign exchange controls, FDI regimes, tariffs on goods and services and non-tariff barriers were substantially eliminated. Peak customs tariffs were brought down significantly.

FDI was allowed into most sectors through automatic route.

Taxation regime was rationalized/ simplified.

The process of privatization of public entities to ensure both the efficient allocation of resources within the economy, promoting healthy competition and generating resources for investment in social sectors was initiated.

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Domestic stock markets were modernized and were opened up to international investors.

With the dismantling of import restrictions, the domestic players, to beat the competition of cheaper/better products from abroad, had to go in for savage restructuring initiatives to manage costs, improve productivity, enhance quality and respond quickly to changing market dynamics. Many family-owned companies realized that, for survival, it is imperative to separate management from ownership. I lost picked the best talents they could lay their hands on and gave them the freedom to manage without the owners breathing down their necks. The scions of many business families are getting trained in leading business schools around the world before joining the family business.

Companies have been vigorously pursuing such concepts and practices as organizational change; best-in-class benchmarking; professional, accountable and transparent form of management; re-engineering core processes to improve efficiency; leveraging IT to improve productivity and quality of decision-making; quality focus; and customer orientation.

According to the latest World Competitive Yearbook, which ranks countries (61 countries this year) on the basis of 312 criteria spanning four areas- economic performance, government efficiency, business efficiency and infrastructure- India climbed 10 notches to be ranked 29 and China climbed to 19th rank from 31 positions last year.

According to a global benchmark study of Deloitte Touche Tohmatsu, Indian manufacturing is enjoying gross profits and sales growth rates that are almost twice that of global manufacturers; sales growth of 15% as compared to 7% for global peers and gross profits of 16% average as compared

to global average of 8%.

Across industry groups, India has been generating better returns on investment than China. World Investment Report 2000 ranked India the second most attractive investment destination among Transnational Corporations. The 'FDI Confidence Index 2005' prepared by A.T Kearney ranked India the second most attractive investor destination.

"An increasing number of India's old economy firms have quietly restructured. Spurred on by the threat of foreign competition, they have discovered how to make internationally competitive goods by shedding labour, designing new products and improving management. They are cashing in on the same low labour costs and technology-astute employees that have helped India in software and outsourcing. In the process, this has given Indian firms the confidence to search out markets in developed economies and even to buy operations abroad."

"Product focus is passé; supply chain is where the competition lies. Manufacturing companies in India have cracked the code by innovatively linking ERP with SCM. This potent combination is helping companies slash costs, manage inventory and optimise scheduling", Doing It Right, Economic Times.

Focus on quality

Indian companies have been leveraging the awesome combination of engineering and managerial capabilities to elevate quality standards to global levels. In fact, Indian manufacturing companies rank second only to their Japanese counterparts in terms of the number of Deming Awards, the most coveted recognition for quality.

India has been the largest filer of patents among the developing countries over the last few years. In the pharma industry,

India has the largest number of USFDA registered companies outside the US.

"Quality is the buzzword for manufacturing in India today. Companies across industries are realizing that the way into the global markets is to produce and service better than the rest of the pack. In their quest for quality, companies are adopting a range of techniques and tools, from Six Sigma to ISO. The leading companies are also challenging themselves to go in for internationally recognized awards like the Deming Prize and Malcolm Balridge awards, in the process raising the level of their interactions with their employees as well as the environment." , Doing It Right, Economic Times.

The Key Constraints Restraining India Inc.

In terms of building scale in crucial areas of production, distribution and marketing, growing market share, containing costs, maintaining quality standards, and adopting state-of-the-art manufacturing practices, all to aggressively compete globally, Indian companies have done reasonably well during the past 15 years. They could, of course, have done better. But then, given the fact that the Indian industry had to withstand the almost predatory policies and practices of an ubiquitous bureaucracy for close to 45 years and that "many of the

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the burden of administrative compliances, complex taxation, poor infrastructure and corruption considerable. The result is that firms in India pay more than rivals to produce, distribute and export their products.

A study of 15 major manufacturing sectors in India shows that the share of operating surplus in the total value of output averaged 15% in India whereas the ratio was 22.6% in Malaysia, 29.4% in Indonesia and 30.6% in Korea. To some extent, the relatively low ratio acts as a constraint on aggressive pricing by the Indian companies.

Third world infrastructure

Low spending on infrastructure—electricity, roads, railways, ports, airports, urban infrastructure, communication—is considered the single most important overall constraint on the Indian economy in general and manufacturing in particular. In other words, infrastructure is the key to unlocking the human and material resources of the country.

It is estimated that India has in the recent past invested only 3.6% of GDP on infrastructure as against 9.0% by China.

The most significant infrastructure constraint for manufacturing is the inadequate supply, poor quality and high cost of electricity. Cost of electricity in India is nearly double that in China and over 60% more than that in the US.

For goods sent by rail, freight costs are twice the average of developed countries and thrice that in China.

On an average, the time taken for different processes at a port in India varies from 5 to 10 times that in China. Delays at the port can put a company at a 15% cost disadvantage relative to overseas competition. Average cost of freight payments as a percent-

age of imports is nearly double in India compared to world average.

India is the largest producer of fruit, vegetables and milk in the world; yet 40% of which rots for want of adequate cold storage, processing and packaging facilities thereby depriving the rural sector of millions of

Outmoded, overly restrictive labour laws.

"One of the most significant regulatory burdens in India is labour regulation which provides a disincentive to grow business, reduces flexibility in operations and increases exit costs."

Current inflexible labour policy makes it difficult for firms to shed workers rendered redundant by market or production conditions.

The greatest irony is that Indian labour law only for the protection of labourers employed in the organized sector which counts for only about 7% of the workforce. Companies are forced to use a capital-intensive method of production. Number of jobs in the organized sector hardly changed since 1991. Only the mix of policy support would help tackle the problem of 'jobless growth'.

World Economic Forum's Global Competitiveness Report, 2005 ranks India 101st out of 117 countries on hiring and firing policies (China's rank is 26th).

Relatively low labour productivity in India acts as a drag. According to the World Bank, China's labour productivity—measured in terms of PPP-based GDP/employed person per hour—was \$ 4.8 in 2004 as compared to \$3.1 in India. A CII study shows that labour productivity in China's organized sector is 10% to 300% higher than in India for most large industries.

However, labour cost in manufacturing in India (6.9%) is lower than that in Malaysia (8.7%) or South Korea (10.7%).

117 countries on hiring and firing policies (China's rank is 26th).

Relatively low labour productivity in India acts as a drag. According to IMD, China's labour productivity-measured in terms of PPP-based GDP/employed person/ hour was \$ 4.8 in 2004 as compared with \$3.1 in India. A CII study shows that labour productivity in China's organized sector is 10% to 300% higher than in India for certain large industries.

However, labour cost in manufacture in India (6.9%) is lower than that in Malaysia (8.7%) or South Korea (10.7%).

Legacy of the Socialist past

The legacy of 40 years of regulations is still hanging heavy. Of course, things have changed profoundly and are still continually improving. However, India still has a lot of catching up to do.

Many analysts of the Indian scene believe that part of the bureaucracy is corrupt and inefficient; armed with plethora of regulations, it tends to ensure that it costs more and takes longer to start a business, enforce a contract and close a business than what is essential.

A recent study by FICCI shows that about 80-90 inspectors could visit an industrial establishment with 20 of them under 5 regulatory areas having the power to send the owner behind bars.

As per the latest survey on Doing Business by an affiliate of World Bank, the overall rank of India is at the bottom of the ladder, 134 out of 174 countries studied.

Looking Ahead

The much-quoted 2003 BRIC study by Goldman Sachs, the biggest global investment banking group, predicted that over the next 50 years India will be the fastest growing of the world's major economies, primarily because India's will be the youngest workforce. By 2050 India will have the world's third largest economy



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per year; this performance will make India the fastest growing economy among 34 developed and developing countries; GDP of India will double every 12 years and India's economy will be the world's third largest by 2020 in PPP terms (i.e. excluding exchange rates effects) behind only US and China; during this period India will add about 250 million workers, the highest for any country, to the labour pool. This would imply that India would add the world's largest number of consumers and savers.

Various public utilities and commercial entities are to award new contracts with an estimated value of Rs. 6 Lakh crores. Besides massive infrastructure investments, significant expansion of the manufacturing sector will produce the secular growth story of India.

The biggest wave of offshoring is yet to come, according to an analysis of McKinsey. Hundreds of billions of dollars worth of manufactured goods from the developed countries (with shrinking workforces, galloping health costs and collapsing pension systems) will be sourced from low-cost countries. Appetite for manufactured products will remain very strong in most of the developing economies which will collectively account for most of the global population. Given the comparative costs of production, fully manufactured items or parts of the processes will move from the developed countries to developing regions which offer optimum conditions.

More and more companies may not have any production facility at all for their products. All that they will own will be the Intellectual Property Rights for production technology and equipment and the brand. They will globally promote their brand, the most valuable asset for a company, and production will be outsourced. (Companies will increasingly adopt the model developed by Nike, the global shoe major.)

Few countries in the world have the capability to exploit the emerging opportunities as does India.

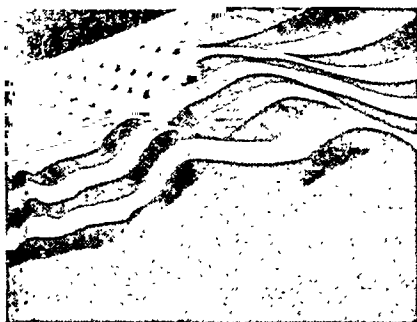
According to the findings of a recent study by ASSOCHAM, manufacturing is poised to create 25 million new jobs by 2010. Manufacturing exports will increase to \$100 billion from the present level of about \$50 billion; by 2015 exports of manufactured products are likely to be of the order of \$300 billion, as per a C&A McKinsey analysis.

If GDP were to grow at the annual rate of 8%, manufacturing sector must grow at the rate of 12%. At this rate, the sector's share in GDP will grow to 23% by 2015 against 15% presently and will generate over 1.6 million new jobs per year at the current employment elasticity. If the elasticity improves (by accelerating the growth of the sectors with high employment elasticity), additional jobs per annum could well be close to 3.0 million. In addition, indirect employment will be 2 to 3 times the direct employment. This, of course, pre-supposes the introduction of a slew of labour, fiscal and regulatory reforms.

Manufacturing itself is undergoing a quiet transformation. The lines between the manufacturing and service industries are increasingly getting blurred. Manufacturers are evolving to a digital enterprise within a more knowledge-intensive manufacturing environment, supported by CAD, virtual reality, animation and simulation (all over the internet) involving the various participants like equipment suppliers, co-designers and consumers.

Manufacturers all over the world are increasingly focusing on services as a way to make themselves more competitive and also to find new sources of growth. Software development and application is dominating the engineering process in consumer and industrial products. "The focus and value in a

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d way of making products that
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manufacturing has what it takes
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n of human history, China and
the richest nations on earth.

numerous scientific and technical inve-
tions and had dominated the world
manufacturing output.

*In 1700, India had close to 24% of g
bal GDP followed by China (22%) and l
rope (20%) (The World Economy: A M
lennium Perspective, OECD, 2001):*

However, by the beginning of 21st ce-
tury, China's share in the global GI
crashed to 11% and that of India to 4%

*"The 19th century belonged to Brita
the 20th century belonged to America a
the 21st century is going to belong to As
China and India."*

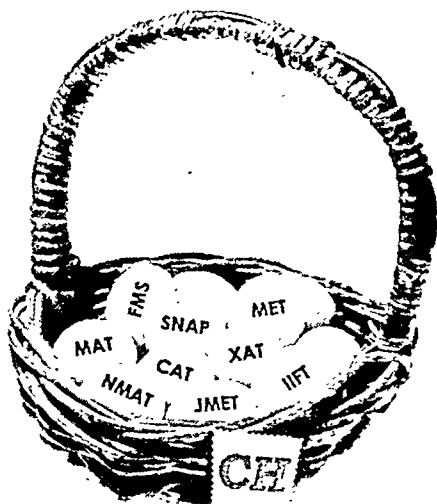
Today China and India together accou-
for 40% of the world population and 18
of global economy based on purchasi-
power parity. According to Morgi
Stanley, very soon their share of the wor-
trade could match their population.

*"India is the global economy's idiot s
vant. It excels at the impossible turning o
hundreds of brilliant engineers a year. I
software houses manage complex data f
the world's most sophisticated clients. I
dia has world-class business leaders ar
solvent banks. Nearly a third of India
population can't read or write. Red tape ar
corruption discourage foreign investmen
as do restrictions on how firms deploy wor-
ers", Fortune, 31, October 2005.*

If India could get its act together, th
country would, hopefully, recapture th
economic power it wielded once.

* This essay is essentially a compilatio
of published materials obtained from
online as well as offline resources whic-
have not, to be sure, been comprehen-
sively acknowledged. Reports, analysis
news items, data etc. brought together by
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Thailand's Coup No 18

Thailand's coup-prone military struck for the 18th time in 72 years. Prime Minister Thaksin Shinawatra who had gone to New York to address the UN General Assembly was forced out of power in September 2006 by a six-man junta headed by the army chief Gen. Sonthi Boonyaratkalin. Martial law was declared and the constitution written in 1997 was scrapped. The junta presumably acted with the tacit approval of the King Bhumibol Adulyadej who was said to be saddened by growing political unrest in the country. The last time the military intervened in Thailand was in 1991.

Gen. Sonthi is the firm Muslim army chief in the country where almost 95 per cent of the people are Buddhists. He is said to be very close to the King.

Thaksin who first became premier in 2001 and won again in 2005 was accused

of corruption, nepotism and abuse of power. Faced with mass protests, he called a snap election in April 2006 which was boycotted by the opposition. The constitutional court annulled the election and called for a new election later in the year. The judiciary also acted at the intervention of the king.

The world's longest-reigning monarch revered King Bhumibol Adulyadej of Thailand celebrated his diamond jubilee on the 60th anniversary in June 2006 with days of festivities attended by crowned heads from more than 20 nations.

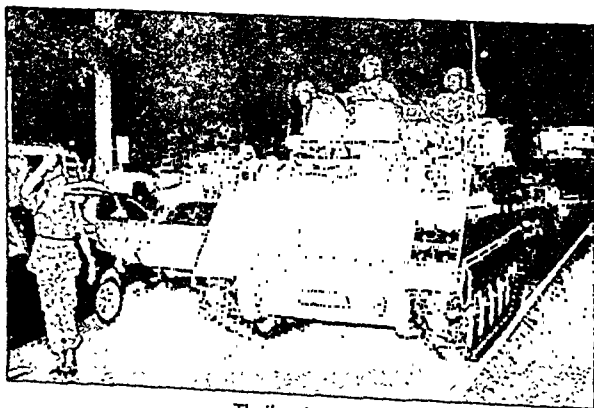
The 78-year old king was born in 1927 where his father was studying medicine and he was educated in Switzerland. When he was only 18, the throne was thrust on him in place of his brother Ananda, the then heir-apparent who died mysteriously in 1946.

NAM with a New Vigour

The continued relevance of the NAM

Aligned Movement (NAM) was reaffirmed at its 14th summit held in Havana, Cuba in September 2006. A new vigour was also infused into it as shown by the final declaration issued by the summit.

The declaration condemned Israeli unlawful policies towards the Palestinian territories and its atti-



Thailand coup

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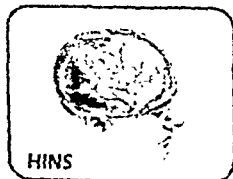
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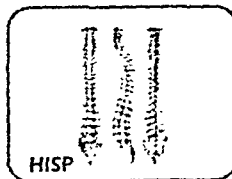
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Lebanon, urged UN to be more representative of its smaller member nations, supported Iran's nuclear energy plan, condemned all acts of terrorism, called for comprehensive global nuclear disarmament, focused on poverty alleviation and agreed on the need to counter the overwhelming US influence around the world. -

The summit was marked by the meeting on the sidelines between India's Prime Minister Manmohan Singh and Pakistan's President Pervez Musharraf in the absence of convalescing Cuban president Fidel Castro and the blistering attack on the US by Iran's president Mahmoud Ahmednejad and Venezuela's president Hugo Chavez. The summit, the second being hosted by Cuba was chaired by Raul Castro, the acting president and younger brother of Fidel Castro.

A Hawkish PM for Japan

Japan has now got its most nationalistic prime minister since 1950s, whom the critics call a dangerous hawk. At 52, Shinzo Abe is also the youngest Japanese prime minister in post-war history. He took over the reigns of the ruling Liberal Democratic Party and the government in September 2006 from Junichiro Koizumi who stepped down after more than five years in power.

Abe is the son of the former foreign minister Shintaro Abe and the grandson of Nobusuke Kishi who was arrested (but never charged) for alleged war crimes and went on to become prime minister in the late 1950s. He is also the grandnephew of Eisaku Sato, another of Japan's most powerful prime ministers.

Like his grandfather, Abe also favours close military ties with the US and fundamental changes in the nation's pacifist constitution. This alarms Japan's war time victims, particularly, China and the two Koreas.

Historian in Jail

The controversial British historian David Irving was sentenced to three years imprisonment in Vienna, Austria in February 2006 for denying the Holocaust and the gas chambers of Auschwitz. He was on trial for a lecture and an interview he gave in Austria in 1989 in which he termed the existence of the Auschwitz gas chambers as a 'fairy tale' and argued that Hitler had protected the Jews in Europe.

He was arrested in November 2005 after returning to Austria to deliver more speeches despite an arrest warrant against him.

Austria has Europe's toughest law criminalising denial of Holocaust. The law carries a maximum of 10 years in jail. The other countries which have such laws are Belgium, Czech Republic, France, Germany, Israel, Lithuania, Poland, Slovakia and Switzerland. But in Britain, to deny Holocaust is not a criminal offence.

New Ruler to Kuwait

Shaikh Sabah Al Ahmed Al Sabah became the 15th Amir of Kuwait in January 2006. As prime minister, he had been virtually running the oil-rich Gulf country for many years due to the poor health of both the late Amir Shaikh Jaber Al Ahmed Al Sabah, and the then crown prince Shaikh Saad Al Abdullah Al Sabah.

Shaikh Saad had automatically succeeded to the throne after the late Amir's Shaikh Jaber's death 10 days earlier. But he was voted out by the parliament on grounds of being medically unfit to rule. The cabinet later named Shaikh Sabah, a half brother of the late Amir as the new ruler. A liberal reformer, Shaikh Sabah, 79, is known as the architect of Kuwait's foreign policy for the past four decades, both as foreign minister and later as prime minister.

Shaikh Sabah visited India in July. This was the first visit by a Kuwaiti Head of State in two decades. There are over 500,000 Indians working in Kuwait.

Here Comes Montenegro

Montenegro became an independent European nation in May 2006, marking one of the final acts of the dissolution of the old Yugoslavia. The federal republic of Yugoslavia consisting of Serbia, Slovenia, Croatia, Bosnia-Herzegovina, Macedonia and Montenegro was proclaimed in 1945 by the Communist leader Josif Broz Tito and it lasted for over 10 years after his death in 1980. But it began to disintegrate under the Serbian nationalist leader Slobodan Milosevic.

Though the breaking away of Slovenia and Macedonia came relatively peacefully, there were devastating wars in Croatia and Bosnia. Thereafter Serbia and Montenegro remained as Yugoslavia from 1992 to 2003, and was later replaced by a looser federation called Serbia and Montenegro. But the relations between them hit rock bottom following Milosevic's brutal repression of the secessionist movement in the Serbian province of Kosovo. The people of Montenegro in a referendum in May 2006, voted to separate from Serbia and became an independent nation.

Milosevic who lost a presidential election in Serbia in 2000 was later arrested and handed over to the War Crimes Tribunal in The Hague where he was put on trial for crimes against humanity and genocide. He was found dead in his cell in March 2006.

A New Cold War

A war of words erupted between the US and Russia in May 2006. The US Vice President Dick Cheney started it by accusing Russia of backsliding on democracy and human rights and using its oil and gas resources to

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intimidate its neighbours. He said that opponents of democracy were seeking to rollback the post-Soviet gains. Cheney was addressing the summit of 10 former Soviet Republics and ex-Communist nations of East Europe and Lithuania.

Reacting sharply in a speech made in the Russian parliament, President Vladimir Putin compared the US (without mentioning its name) to a "hungry wolf that eats and licks to no one". He said the US was spending 25 times more than Russia on defence. Russian newspapers compared Cheney's remarks to a 1946 speech made by British Prime Minister Winston Churchill in the US when cold war Europe was being divided by an "Iron Curtain". According to historians, that speech heralded the beginning of the cold war between the West and the USSR which ended with the collapse of the USSR 15 years ago. Naturally the Cheney-Putin spat seemed as a harbinger of the Second Cold War. These incidents occurred when Russia was preparing to host the G-8 summit in July.

Scandals in Israel

The president locked in a sex scandal, the justice minister quitting over a stolen kiss, and the prime minister haunted in a property deal. It was Israel immediately after its month-long bitter war in Lebanon. In August 2006, police questioned President Moshe Katsav. He seized computers and documents in a overnight raid on his official residence, following allegations by five of his former female employees that he had sexually harassed them over the years. One of them also accused that he received bribe for granting presidential pardons, and that he had overdrawn a bank account allegedly set up to collect money.

A long time Likud Party back bench, the 70-year old Katsav was elected as the eighth president of Israel by parliament in 2000 in



Moshe Katsav

after a shocking upset over the elder statesman and Nobel laureate, Shimon Peres of the Labour Party.

Justice Minister Haim Ramon, 56, resigned over an allegation by a young female soldier that he forcibly kissed her during a social gathering at the defence ministry.

Prime Minister Ehud Olmert, already facing public anger over his failure to win the war in Lebanon, was accused of benefiting from a massive discount on the purchase price of a luxury apartment he and his wife bought in Jerusalem.

Women At the Helm

A new generation of women started holding office as heads of states in 2006. Ellen Johnson-Sirleaf, 67, became Africa's first elected female president when she took oath as the president of Liberia in January. She won the election held in November 2005 against the football star George Weah. A former finance minister she had worked at the UNDP, the World Bank and the International Crisis Group think-tank.

Springfield, Mass., 10/10/06

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olent crackdown on anti-monarchy demonstrations took the unprecedented step of deciding to question the King. The government and the Maoists agreed to observe ceasefire and resume talks that had collapsed in 2003.

Sri Lanka a War Again

Sri Lanka's army chief Lt. Gen. Sanath Fonseka was seriously wounded when a LTTE woman suicide bomber blew herself up at the army's heavily fortified headquarters in Colombo. Three months later, the army's deputy chief Lt. Gen. Parami Kulatunge was assassinated in a similar attack on the outskirts of the capital. As fighting between the LTTE and the government intensified, more than 900 people, over half of them civilians died in assassinations, suicide bombings, mine attacks, military airstrikes and naval clashes. Tens of thousands were displaced and more than 4,000 fled to the nearby Indian state of Tamil Nadu.

The assassination attempt on the army chief came just two months after the representatives of the government and the LTTE met in Geneva for talks. This was their first meeting since the LTTE's unilateral withdrawal from the dialogue process in March 2003.

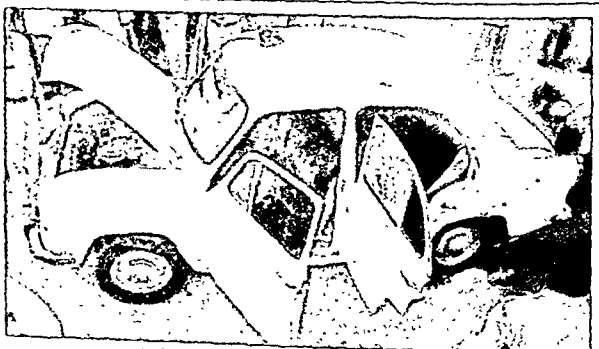
The government's response to the attack on the army chief in April was swift. Air force planes supported by naval artillery pulverised the LTTE positions in the north-eastern parts of Sri Lanka. It was the first of such military actions since the February 2002 ceasefire agreement.

In contrast, the assassination of Foreign Minister Lakshman Kadirgamar in the previous year had not attracted such a response. Since November 2005, Sri Lanka has a new government under President Mahinda Rajapakse who was elected on a Sinhalese nationalist platform.

The LTTE shifted its theatre of operations to the sea in May when its explosive-laden suicide boats tried to attack a naval convoy comprising a troop carrying vessel and its accompanying naval fast attack craft. The navy and the air force retaliated. Immediately after the assassination of the deputy army chief in June, the military reverted to the security regulations that were in force prior to the 2002 ceasefire, implying that the peace process that began with the signing of the ceasefire pact was dead for all practical purposes.

Terror Strikes India Again

India's commercial and entertainment capital, Mumbai was scarred and battered once again by terrorist attack in 2006. Earlier in the year the country's holiest city, Varanasi was targeted. Later came the blasts in the communally sensitive town of Malegaon in Maharashtra.



Policemen investigate a car used by suspected militants in Nagpur

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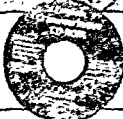
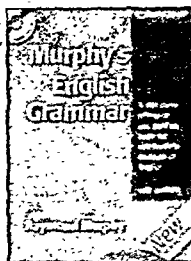
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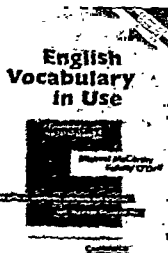
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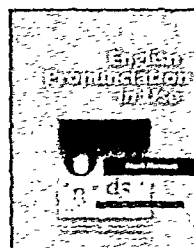
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In a span of 11 minutes, seven bombs ripped through the packed first class compartments of commuter trains in Mumbai, during the evening rush hour on July 11, killing more than 180 persons and injuring 700.

It paralysed the city and rendered hundreds of people on railway stations and roads, as the Western Railway service was shut down for five hours. But in less than 24 hours the trains that form the transport lifeline of one of the world's most congested cities were again bustling. And once again the people of Mumbai bounced back and millions of commuters started traveling in over-crowded trains as usual. "This is living proof of our contempt for terrorism. No one can make India kneel. No one can come in the path of our progress." - Prime Minister Manmohan Singh said in an addressed to the nation.

Mumbai was no stranger to terrorist attacks, having witnessed its worst in 1993, when bombs placed outside hotels, banks, the Air India building, and the Bombay Stock Exchange exploded leaving more than 250 dead and around 1400 injured.

The banned Students Islamic Movement of India (SIMI) was one of the prime suspects in the Mumbai train blasts. Originally set up as a students organisation in the early 1980s, SIMI got embroiled in allegations of involvement in riots across Maharashtra and was banned in 2001. Subsequently it is believed to have joined outfits like Pakistan-based Lashkar-e-Toiba. Analysts compared the attack with the mass transit bombings in Madrid in 2004 and London in 2005.

Two bomb blasts in Varanasi on March 7 killed 38 people and injured more than a hundred. The first was in the Sankatmochan temple in which several people including the priest and participants of an ongoing wedding were killed. The second was at the Varanasi railway station. Further casualties were prevented because bombs discovered at other spots were defused in time. For these

incidents also the Lashkar-e-Toiba was blamed. Within hours two top LeT operatives were killed in a police raid in Lucknow.

At least 31 people were killed and more than 200 seriously injured when three powerful explosions rocked the communally sensitive town of Malgaon in September. The blasts took place almost simultaneously in the graveyard of the Noorani Mosque and the busy Mushaira Chowk and Ayeshanagar locality. Thousands of people had assembled at the graveyard for prayers on the holy day of Shab-e-Barat. The people who had gathered in the mosque for Friday prayers were also among the casualties. The blasts were termed as terror attack aimed at creating communal tensions between Hindus and Muslims.

Tough Time for Natwar Singh

The going got tough for the former external affairs minister Natwar Singh following the publication of the findings of Justice Pathak Committee which inquired into the Volcker Commission Report relating to the United Nations Oil-for-Food Progra-



Natwar Singh

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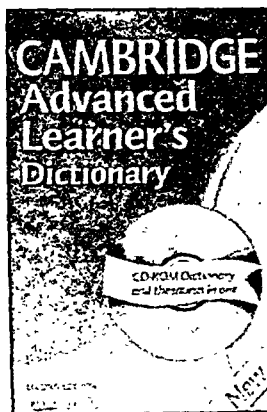
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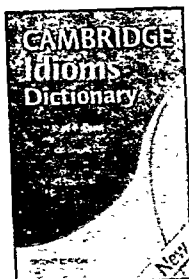


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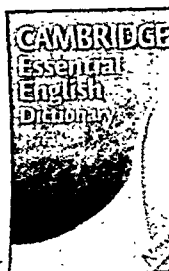
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mme. The Committee found that Natwar, as head of the Congress foreign affairs cell had misused his position to get oil contracts from the UN-sanctioned Saddam Hussein regime for his son's friend Andaleeb Sehgal's Hamdaan Exports. However the report made it clear that neither Natwar nor his son Jagat had received money from anyone. The report also said that "there is not a shred of evidence to link the Congress Party to the said transactions".

The leakage of the report before it was presented to the prime minister was condemned by the opposition parties as well as Natwar Singh. He filed a breach of privilege notice against the prime minister and even criticised him in public. He was promptly suspended from the Congress.

The Volcker report released in October 2005 had said that Natwar and the Congress Party had paid illegal surcharges to the Saddam Hussein regime in Iraq to secure four million barrels of oil which they had later sold in the international market through a Swiss company for a profit. Subsequently, Natwar lost his job as the external affairs minister, but was retained as minister without portfolio. Later he was removed from the Congress Working Committee and had to resign from the Union Cabinet.

The Mahajan Tragedy

One of India's most articulate and resourceful politicians was cut down at the peak of his career. After a valiant 12-day battle for life in a Mumbai hospital, the BJP general secretary and former union minister Pramod Mahajan, 57, succumbed to the injuries he suffered from the gun shots by his own younger brother Praveen Mahajan.

Praveen shot him at point blank range in



Pramod Mahajan

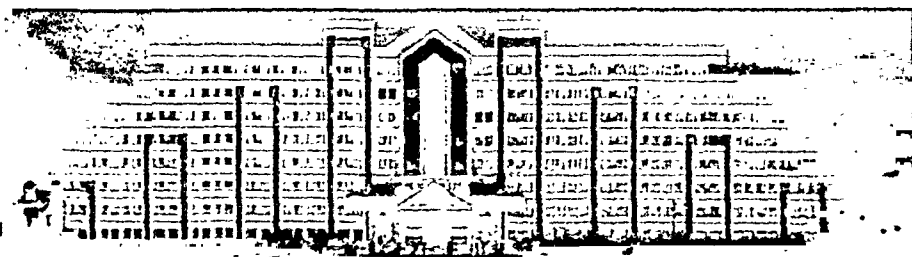
his Mumbai apartment in April 2006, a later explained that he took revenge for years of humiliation by his brother. He surrendered to the police and was taken into custody.

Pramod Mahajan, who was born in a small town Maharashtrian middle-class family, came to public life through the ABVP and RSS. He attracted national notice in the 1980s when he masterminded the BJP's first and most successful alliance with the Shiv Sena. He served first as the minister for information and broadcasting and later as the minister of information technology in the NDA government headed by the BJP leader Atal Bihari Vajpayee at the centre.

After the NDA lost power, he became one of the six general secretaries of the BJP. Close to big industrialists and businessmen, he was considered to be the biggest fund raiser for the party. He was anointed by Vajpayee as BJP's Lakshman, meaning heir apparent.

The tragedy struck the Mahajan family again in June when Pramod's son Rahul was carried unconscious to a hospital from his Delhi official residence of his father. Pramod's personal secretary Bibek Mahajan was found dead due to over dose of cocaine.

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They had come to Delhi on their way to Guwahati on the next day to immerse Pramod's ashes in the River Brahmaputra. Rahul was arrested on charges of procuring, consuming and distributing drugs and destruction of evidence.

Koda's turn in Jharkhand

In a rare incident, an Independent MLA became chief minister of a state. Madhu Koda, 35, formed a coalition government in Jharkhand in September 2006, with the support of the United Progressive Alliance consisting of mainstream political parties such as the Congress and the Rashtriya Janata Dal.



Madhu Koda

Reflecting the political flux in Jharkhand, he is the state's fifth chief minister in less than six years of its existence.

Koda's rise to power followed the collapse of the 18-month old Arjun Munda-led National Democratic Alliance government after it was reduced to a minority in the wake of resignations of four ministers.

Koda had contested the February 2005 elections as a rebel BJP candidate. But within

a month he returned to the NDA fold, offering his support to the Munda government in return for a ministerial berth.

A new Era in Sino-Indian Ties

It was a dawn of a new era in Sino-Indian relations when the famous Himalayan pass on the border between the two countries was reopened in July 2006, after a gap of 44 years. It demonstrated the determination of both nations to push forward economic and political cooperation despite the border dispute between them remaining unsettled.

The 4,500 meter high Nathula pass which runs between India's Sikkim state and China's Tibet Autonomous Region was once part of the historic Silk Route that connected China with India, West Asia and Europe. It used to account for 80 per cent of Sino-Indian border trade before it was closed after a brief border war in 1962.

The reopening of the pass came a little over a year after China accepted Sikkim as part of India and India recognised Tibet as part of China. China is India's second largest trading partner only after the US. Trade through Nathula pass though on a small scale in the beginning is expected to boost the economies of the land-locked mountain regions of both countries.

Left Sweeps in Bengal

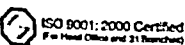
The Assembly elections in April-May 2006 placed the Communist Party of India (Marxist)-led Left alliances in their strongest ever positions in West Bengal and Kerala. In West Bengal, the Left Front which had in power for 29 years since 1977, was elected for the seventh consecutive time, with a whopping three-fourths majority.

While the Left Front won 235 of the 294

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Review of 2006

Sachidananda Murthy

Resident Editor, The Week & Malayala Manorama, New Delhi

The year 2006 was one of sharp contrasts. While the UPA government remained stable, political class was rocked by controversies. Even as the economy grew rapidly, suicide of farmers and growing rich-poor gap rang the alarm bells. serial blasts on Mumbai ins and attack on temple in varanasi kept the nation on its toes, and relations with Pakistan became tense. An aggressive Prime Minister showed a new face, but was hobbled by the fetters put by allies and supporters on investment and civilian nuclear deal with the United States, even as George Bush had a high profile visit. Reservations in higher education became a tough chestnut for the government to handle. The main opposition party was hit by the murder of its chief fundraiser, poor electoral performance, an ineffective Rath Yatra and a mole charge which backfired.

Parliament was in focus as controversies and scandals rocked the edifice to its foundations. Even as Parliament was recovering from the controversy of the MPs who were trapped in the cash for questions scandal, the latest crisis took everyone by surprise. The political system got jolted with the disqualification of Jaya Bachchan, the Rajya Sabha member of Samajwadi Party and it triggered off an avalanche of petitions against members of parliament holding unexempted offices. the controversy sucked into its vortex major politicians like UPA chairperson Sonia Gandhi, Prime Minister Manmohan Singh, Lok Sabha Speaker Somnath Chatterjee and also triggered a constitutional standoff when presi-

dent A.P.J. Abdul Kalam became the first occupant of Rashtrapati Bhavan to return a bill to Parliament for reconsideration.

The Office of Profit issue

Stung by the allegations that she was occupying an office of profit as chairperson of the national advisory council, Sonia resigned from the Lok Sabha, saying her inner voice had advised her to give up the post. She won the byelection with a bigger majority which made her supporters call her a true martyr. Other MPs, including Chatterjee refused to resign, and instead the UPA and its outside supporters pushed for a change to a 47 year old law on offices which are exempted.

The country debated on the need to separate executive power from Parliamentary democracy. Over the years nobody cared for this provision and MPs took jobs which conflicted with their job as lawmakers. The situation worsened in states as chief ministers would appoint every MLA, who could not be made minister to posts with the rank and privileges of cabinet minister.

The Election Commission concluded that Samajwadi Party MP Jaya Bachchan had enjoyed the privileges and powers of chairperson of Uttar Pradesh Film Advisory Council she was disqualified from Rajya Sabha. Political parties rushed with complaints against their forerunners targeting Sonia, Chatterjee and 50 other MPs. the government moved fast with a bill to amend the law on office of profit, exempting 43 posts, including NAC, Srishantketan Development Author-

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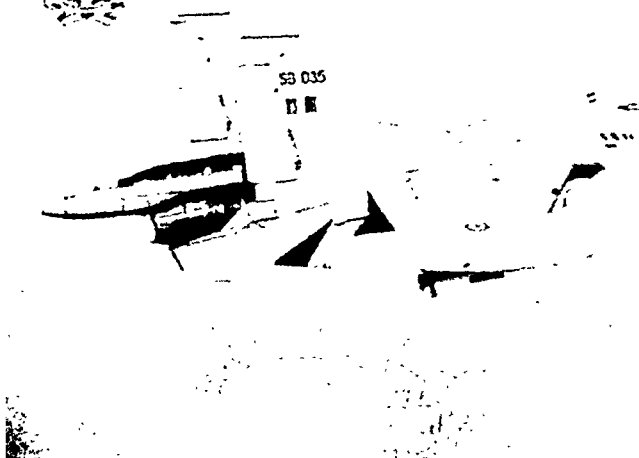
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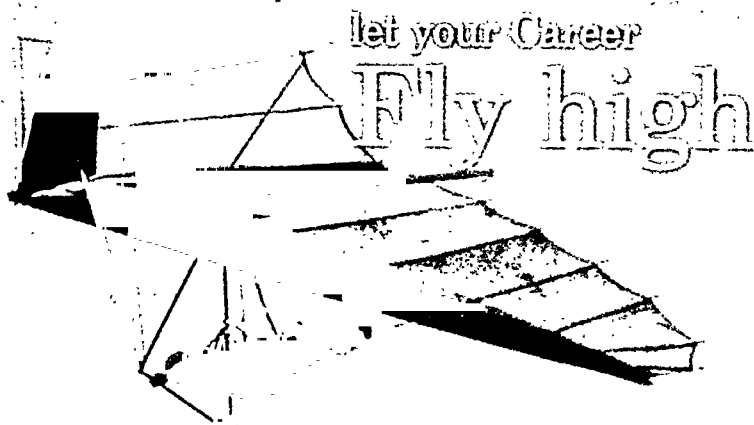


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democratic stability and economic prosperity. The King's iron handed approach achieved what was thought to be impossible till now - unity between the political parties and the Maoist forces. They found a common symbol of hatred in the King, who had held all political and military power. But as people poured into the streets, Gyanendra was forced to restore the Parliament which he had sacked and appoint veteran G P Koirala as the prime minister. The Parliament promptly stripped all powers of Gyanendra and jailed his ministers.

Violence rocked Sri Lanka as the ceasefire between the army and the Liberation Tigers of Tamil Eelam collapsed. While LTTE resorted to political assassinations in the capital Colombo, the army began a ruthless operation to drive Tigers out of their hard won territory. The peace process, brokered by Norway and supported by India, collapsed as Norwegian monitors withdrew from the ceasefire zones.

Hardliner President Mahendra Rajapakse also moved fast to consolidate power by ousting his predecessor Chandrika Kumaratunge from the key posts of the ruling party. India, ever sensitive to the plight of the Sri Lankan Tamils and its impact on the domestic situation, urged Rajapakse to work towards a federation which promised justice and equity to the Sinhalese and Tamils.

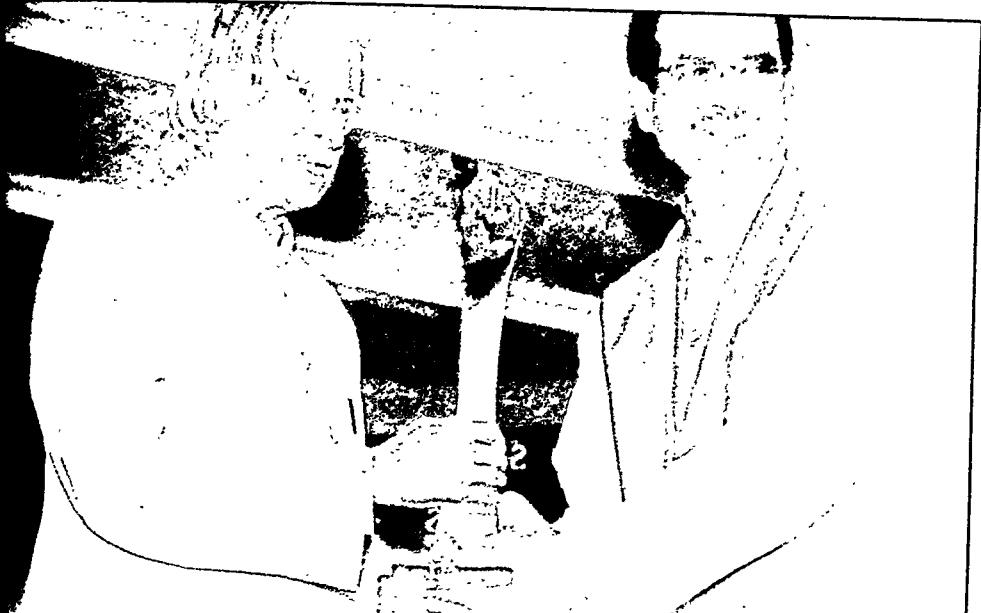
The share market continued its dizzy climb as it crested the 12,000 mark and money flowed into the market. Trade improved and foreign direct investment increased in the non traditional areas. Big investors were steel giants Lakshmi Mittal and Korea's POSCO. The government boldly talked about making the rupee float free within five years. Even as the economy boomed, trade relations developed slowly with the neighbourhood. But the booming economy also saw the shame of hundreds of farmers committing suicides in the Southern states and Maharastra.

were unable to get out of the debt trap. Special packages were given by Singh, but the agrarian crisis needed much more effort. Despite the government announcing increase in rural sector and other ameliorative steps, there were concerns that it was not enough. After a long time, the country imported wheat, as the rise in prices of pulses and petroleum products put pressure on inflation.

The South Asian Free Trade Agreement amongst the SAARC countries did not take off, because of Pakistan's reluctance to give Most Favoured Nation to India. SAARC grew with the membership given to Afghanistan and observer status to China and United States. The Free Trade Agreements with Thailand and Singapore too suffered due to concerns on various issues, though Manmohan Singh has made it a part of his trade policy. But economic ties with the Arab world, which had been tepid since the Babri Masjid demolition and the Iraq war, improved dramatically as Saudi King Abdullah made a historic visit to India and a host of leaders from the region came to New Delhi, sometimes first to Bangalore and Hyderabad to see the IT revolution.

However Iran was not enthusiastic about greater oil and gas links with the UPA government, as it was peeved about New Delhi voting against Tehran on Iran's nuclear programme. But Manmohan Singh was clear that India did not want another nuclear weapon state in the neighbourhood and was sure that Iran would calm its anger against India.

Nuclear issues dominated Parliament because of the treaty planned with United States, which was cemented during the visit of George Bush, after a few last minute glitches. The deal got the approval of the US Congress, but the conditionalities suggested by American lawmakers made the Indian nuclear scientists and the opposition parties



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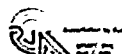
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പാരഗൺ TMT കമ്പികൾ

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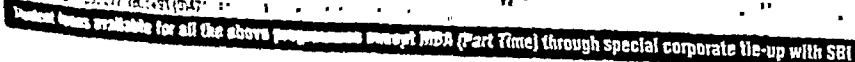
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00,000 more people to quit smoking from 2007 • French President Chirac orders the asbestos-lined warship Clemenceau back home • Dalai Lama's envoys are in China for secret talks on more autonomy for Tibet • Bird flu deaths reach 91 worldwide; 16. Dead swans in Germany are found carrying the strain of H5N1 • US Vice President Dick Cheney takes responsibility for accidentally shooting a fellow hunter • After five days of protests over election results, Rene Preval, a champion of the poor, is declared President of Haiti • UN says 1200 people are dying in DR Congo everyday from war-related causes • Pakistan's Asif Ali Zardari is declared a proclaimed offender by a court • Army helicopters bomb rebel positions in Nepal's mountainous districts • Turkmenistan to supply 3.2 b.c. feet gas per day to Pakistan • Iran orders enquiry into claims that a police death squad has been operating in the country • Pakistan not to allow import of items from India other than the 773 permitted under the 'positive list' • France says Iran's nuclear programme is a 'clandestine military' project • China accuses the Dalai Lama of 'internationalising' the Tibet issue • Thousands rally against Prophet cartoons in Pakistan; 17. French actress Eva Green chosen as the new James

Bond girl • Japanese economy grew at 5.5% annual pace in the fourth quarter • Bird flu reported in Slovenia, Germany discovers 10 more cases, followed by two more in Greece, one more in Austria; Middle East and Africa alerted • EU opens up service industries like plumbers, hairdressers, etc. • Ismail Haniya, Hamas leader in Gaza, tipped to become Palestinian Prime Minister • Philippines landslide kills about 2000, a village is wiped out • Rebels say oil firms must leave Nigeria; 18. Philippines landslide toll put at 1800 • 11 killed in protests against Prophet cartoons in Libya • A 62-year-old woman of Redding, USA gives birth to a 2.3 kg baby, her 12th child • France reports first case of H5N1 bird flu • US Defence Secretary Rumsfeld says Kofi Annan is wrong in calling for the closure of the military-run detention centre at Guantanamo Bay; 19. Israel imposes sanctions against Hamas-led Palestinian government • Crown Prince Frederick of Denmark voted the most romantic man in an opinion poll • 15 killed in cartoon protests in Nigeria • Tony Blair calls the US detention camp at Guantanamo Bay an 'anomaly' • Iran sticks to its 'right' to enrich uranium on its own soil; 20. Osama Bin Laden says in the latest tape that he will never be captured alive • Research shows that one in four

British workers has a second job • Sri Lanka moots the idea of a Buddhist pilgrimage trail to attract tourists from China, Japan & Korea • 23 killed in attacks in Iraq • Movement for the Emancipation of the Niger Delta attacks oil facilities in Nigeria • Bird deaths create panic in Britain; H5N1 reaches Germany • Sri Lanka talks begin amid bombing scare; 21. Iran says it would no longer hold nuclear talks with EU-3, but will hold talks with Russia • Pak President Musharraf says though CBMs are going ahead, not much progress has been made on 'conflict resolution' with India • More violence in Nigeria on cartoon issue, curfew imposed • 22 die in Iraq blast; 22. 4 out of 10 babies in UK are born to unmarried mothers • 200 m. birds killed or culled in 32 countries, following bird flu threat • OIC denounces the fatwa for killing the Danish cartoonist for drawing caricatures of the Prophet; 23. Roof collapse kills 45 in Moscow • Sectarian clashes kill 140 people in Iraq • Muslims flee the Nigerian city Onitsha as sectarian violence kills 80 persons • Lindsay Davenport beats Elena Likhovtseva to attain her 700th singles victory at the Dubai Open • Armed robbery at a Bank of England depot in Tonbridge, London - £ 40 m. stolen by a gang posing as police officers; 24. Suicide bombers try to storm

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 £2 m. reward announced in
 the hunt for £50 m. British
 robbery gang • The four Asian
 cricketing nations - India, Pa-
 kistan, Sri Lanka and
 Bangladesh - to jointly bid for
 the 2011 World Cup • 54 die
 in Bangladesh textile mill fire
 • A coup attempt by a section
 of the armed forces in Philip-
 pines crushed and emergency
 declared; 25. China rules that
 all death penalty cases be
 heard in an open court •
 NASA's Mars Reconnaissance
 Orbiter, launched on Aug. 12,
 2005, is nearing the Red
 Planet; 26. Jamaica to have
 Portia Simpson Miller as Prime
 Minister, the first woman
 head of state • H5 subtype
 bird flu found in a dead duck
 in Geneva • Prison riot in Af-
 ghanistan, with 1500 prison-
 ers (mostly Al Qaeda and
 Taliban men) in control of a
 block of the main jail •
 Drought hits Kenya's wildlife,
 cattle and citizens • US Am-
 bassador to UN John Bolton
 criticises UN for bad manage-
 ment and corruption • China
 warns of bird flu epidemic;
 27. According to US Dept. of
 Commerce's Census Bureau,
 India with 1.6 b. population
 will outrank China with 1.4 b.
 by 2050 • Sri Lankan President
 Rajapakse's electoral allies JVP
 and JHU reject the Geneva
 agreement between Colombo
 and LTTE • The International
 Court of Justice opens the

leaves 121.5 b. euros in aid
 to bolster the Palestinian care-
 taker government • Singer
 Michael George is held in
 drug case; 28. 30 killed in
 three explosions in Baghdad
 • Bird flu reported in parts of
 Pakistan's NWFP • IAEA says it
 hasn't found any evidence
 that Teheran had diverted
 material towards making
 atomic weapons • 2000 Af-
 ghan prisoners resume riot-
 ing • US provides Pakistan
 with new missile to hit terror-
 ist hideouts.

March

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1. H5N1 bird flu infects a
 German cat • 23 killed in a
 Baghdad car bomb attack •
 George Bush says that Bin
 Laden will be brought to jus-
 tice • Beijing launches cam-
 paign to stamp out public
 spitting and littering, ahead of
 2008 Olympics; 2. Five per-
 sons killed and 50 injured in a
 suspected case of suicide
 bombing outside the Ameri-
 can consulate in Karachi • An
 Italian investigative commis-
 sion says USSR was behind
 the assassination attempt on
 the Pope in 1981; 3. 19 more
 killed in Iraq in sectarian
 clashes • Emergency lifted in
 Philippines • Vienna talks be-
 tween EU and Iran end with-
 out any agreement; 5. Ramzan
 Kadyrov appointed
 Prime Minister of Chechnya •
 Ninth bird flu death reported

in China • Campaign against
 Thai Prime Minister Thaksin
 stepped up • Political parties,
 media and religious leaders in
 Pakistan express dissatisfi-
 cation over President Bush's visit
 to the country; 6. Oscar
 Awards announced: 'Crash' is
 best film, Philip Seymour
 Hoffman - best actor, Reese
 Witherspoon - best actress
 and Ang Lee-best director •
 Former rebel Croatian Serb
 leader Milan Babic commits
 suicide • Iran says it will not
 give up the right to small-
 scale enrichment • IAEA chief
 hopes agreement will be
 reached soon to ease Western
 fears over Iran's nuclear
 progra-mme • Official enquiry
 finds no evidence of foul play
 in the accident that killed
 Diana • Israel to withdraw
 from more than a dozen
 settlements in the West Bank;
 7. Bird flu spreads to Russia;
 800,000 birds culled; 8. Fiji
 President Ratu Josefa Iloilo is
 re-elected • South Dakota
 state bans abortions • Britain's
 immigration norms tightened
 • Security council to take up
 Iran's nuclear case; 9. UN says
 bird flu will cross the Atlantic
 to the Americas within a year
 • Iran says the move to send
 the nuclear issue to Supreme
 Court is part of a psychologi-
 cal war master- minded by
 USA and aimed at undermin-
 ing the nation's clerical rulers
 • Venezuelan national flag un-
 dergoes changes - an 8th star
 and a turnabout of the horse;

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10. *Forbes* billionaires are 793 in number, with a combined wealth of \$2.6 trillion, headed by Bill Gates worth \$ 50 b. The fifth in the list is Lakshmi Mittal worth \$23.5 b. • Michael Jackson ordered to close Neverland Valley Ranch • 30 killed in a blast in Baluchistan • President Bush's approval falls • USA to close the Abu Ghraib prison • 'Lands Act' promulgated by LTTE, with provisions for distributing agricultural land; **11.** Former Yugoslavia leader Slobodan Milosevic is found dead in his prison cell near the Hague • NASA spacecraft reaches orbit around Mars • 30 militants killed in Pakistan's strife-torn tribal region; **12.** Blood tests prove that Slobodan Milosevic took drugs to worsen his health and bolster his case for treatment in Russia; **14.** Sectarian killings in Iraq number 85 in 24 hours • Britain to withdraw 800 troops from Iraq this spring • Chinese Prime Minister says once India and China realised their full potential, it would herald the dawn of a new 'Asian century' • Israel raids Jericho jail; **15.** Saddam Hussein denounces his trial as a 'comedy' • Half the French universities remain closed as protest against terms of the new job contract for young people; **16.** President Bush says relations with India are on 'a new and fruitful path' • The 4th World Water Forum to begin in Mexico City on Mar. 23 • Iran expresses willingness to open a dialogue with US on Iraq • Ibrahim Jaafari offers to quit the race for Iraq premiership; **18.** Thousands bid farewell to Slobodan Milosevic in Belgrade, ahead of his burial • Hamas announces formation of its cabinet • French students clash with police outside Sorbonne University after 500,000 people protest nationwide against a new jobs law; **19.** Nepal's seven-party alliance reaches agreement with Maoist rebels to oppose king; **20.** Japan begins to issue biometric passports, meeting security measures imposed by US • Ford's Volvo Car to make sedans in China • A new literary prize for Asian authors, Man Asian Literary Prize, launched by Man Group and Hong Kong Literary Festival • 14 killed in clash between Nepalese security forces and Maoists • Belarus leader Lukashenko wins a third presidential term • Cyclone batters east coast of Australia • Iraq war enters the fourth year; **21.** Pakistan reports the presence of bird flu virus • Cyclone renders 2000 people homeless in Innisfail, Australia • Swedish Foreign Minister Laila Freivalds resigns after criticism of her handling of Asia's tsunami crisis • Russia and China sign three deals on oil and natural gas cooperation • Pakistan test-fire for the second time its missile Halft VII (Babur) • Basque separatists declare a permanent ceasefire, after four decades of bombings and shootings in their campaign for independence from Spain • Russia not to support the draft on Iran nuke issue; **22.** US military to investigate the killing of Iraqi citizens in the village of Al Bu Seija on March 15 • Dubai to have a 76 km metro rail system by 2009, at a cost of \$3.96 b. • Bird flu toll reaches 103 • US military to investigate the killing of Iraqi citizens • A Saudi film, 'Keif-al-Hal' (How Are You?) featuring the first silver screen actress from that country to be shown in West Asia soon; **23.** Ferry sinks off the coast of Cameroon - 127 feared drowned • Pakistan and China to begin bus service from June 1 • Nepali communist leader Madhav Nepal whisked away to an unknown place by security forces; **24.** 70 die in Mogadisho fighting between rival Somalia militia and a new 'anti-terror' alliance • 15 new cardinals are installed by the Pope, raising their number to 193 • China confirms death of a woman from bird flu • Shootings and bombings kill 17 in Iraq • Nepal Supreme Court upholds the ban on Maoists; **25.** Parliamentary election in Ukraine • Opponents to Thaksin ask Thai King to appoint a new Prime Minister • An Afghan man faces pos-

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10. *Forbes* billionaires are 793 in number, with a combined wealth of \$2.6 trillion, headed by Bill Gates worth \$ 50 b. The fifth in the list is Lakshmi Mittal worth \$23.5 b. • Michael Jackson ordered to close Neverland Valley Ranch • 30 killed in a blast in Baluchistan • President Bush's approval falls • USA to close the Abu Ghraib prison • 'Lands Act' promulgated by LTTE, with provisions for distributing agricultural land; **11.** Former Yugoslavia leader Slobodan Milosevic is found dead in his prison cell near the Hague • NASA spacecraft reaches orbit around Mars • 30 militants killed in Pakistan's strife-torn tribal region; **12.** Blood tests prove that Slobodan Milosevic took drugs to worsen his health and bolster his case for treatment in Russia; **14.** Sectarian killings in Iraq number 85 in 24 hours • Britain to withdraw 800 troops from Iraq this spring • Chinese Prime Minister says once India and China realised their full potential, it would herald the dawn of a new 'Asian century' • Israel raids Jericho jail; **15.** Saddam Hussein denounces his trial as a 'comedy' • Half the French universities remain closed as protest against terms of the new job contract for young people; **16.** President Bush says relations with India are on 'a new and fruitful path' • The 4th World Water Forum to begin in Mexico City on Mar. 23 • Iran expresses willingness to open a dialogue with US on Iraq • Ibrahim Jaafari offers to quit the race for Iraq premiership; **18.** Thousands bid farewell to Slobodan Milosevic in Belgrade, ahead of his burial • Hamas announces formation of its cabinet • French students clash with police outside Sorbonne University after 500,000 people protest nationwide against a new jobs law; **19.** Nepal's seven-party alliance reaches agreement with Maoist rebels to oppose king; **20.** Japan begins to issue biometric passports, meeting security measures imposed by US • Ford's Volvo Car to make sedans in China • A new literary prize for Asian authors, Man Asian Literary Prize, launched by Man Group and Hong Kong Literary Festival • 14 killed in clash between Nepalese security forces and Maoists • Belarus leader Lukashenko wins a third presidential term • Cyclone batters east coast of Australia • Iraq war enters the fourth year; **21.** Pakistan reports the presence of bird flu virus • Cyclone renders 2000 people homeless in Innisfail, Australia • Swedish Foreign Minister Laila Freivalds resigns after criticism of her handling of Asia's tsunami crisis • Russia and China sign three deals on oil and natural gas cooperation • Pakistan test-fire for the second time its missile Halfvt (Babur) • Basque separatists declare a permanent ceasefire, after four decades of bombings and shootings in their campaign for independence from Spain • Russia not to support the draft on Iran nuke issue; **22.** US military to investigate the killing of Iraq citizens in the village of Al Bu Seija on March 15 • Dubai to have a 76 km metro rail system by 2009, at a cost of \$3.96 b. • Bird flu toll reaches 103 • US military to investigate the killing of Iraq citizen • A Saudi film, 'Keif-al-Ha' (How Are You?) featuring the first silver screen actress from that country to be shown in West Asia soon; **23.** Ferry sinks off the coast of Cameroon, 127 feared drowned • Pakistan and China to begin bus service from June 1 • Nepali communist leader Madhav Nepal whisked away to an unknown place by security forces; **24.** 70 die in Mogadisho fighting between rival Somalia militiamen and a new 'anti-terror' alliance • 15 new cardinals are installed by the Pope, raising the number to 193 • China confirms death of a woman from bird flu • Shootings and bombings kill 17 in Iraq • Nepal Supreme Court upholds the ban on Maoists; **25.** Parliamentary election in Ukraine • Opponents of Thaksin ask Thai King to appoint a new Prime Minister • An Afghan man faces po

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sible death sentence for converting from Islam to Christianity • French students snub Prime Minister's offer for talks • Lakshmi Mittal's 18.6 billion euro takeover bid for Arcelor is blocked by a change in Luxembourg corporate law ; **26.** Rebels clash with troops in Baluchistan, four killed • Ban on smoking in Scotland; **27.** UN prosecutor asks Nigerian President to arrest Charles Taylor, former President of Liberia, to avoid the possibility of his fleeing to evade arrest • Biggest share of votes for pro-Russian Yanukovich, in Ukraine • Tony Blair says Iraq and Afghanistan are 'decisive battlegrounds' for Western values • Four Poles are kidnapped by Nepal Maoists • Suicide bomber blows himself up at an army recruitment centre, killing 40, in northwest Iraq • Asian workers in Dubai are up in arms against poor living conditions; **28.** Scientists are hopeful that they may soon have a pill to treat HIV infection • 87% of software sold in Indonesia in 2005 was pirated • Al Qaeda conspirator Zacarias Moussaoui tells jurors that he was supposed to hijack a fifth jet airliner on 11/9/2001 and hit White House • Pope intends to visit China • US senate panel votes to increase H-1B visas to 300,000 a year: more visas for nurses and agricultural workers, illegal aliens in USA are nearer to citizenship; **29.** Solar eclipse

observed in Turkey • Kadima Party wins Israeli elections • Former Liberian warlord Charles Taylor flown back to his homeland from Nigeria • Trade unions and students in France shun talks with Prime Minister; **30.** Iran refuses to comply with Security Council demand for an end to the uranium enrichment • Hamas cabinet of Palestine led by Prime Minister Ismail Haniyeh sworn in • Gold is \$580 an ounce • Local government elections in Sri Lanka • China overtakes Japan to become the largest holder of foreign exchange reserves in the world, estimated at \$854 billion; **31.** China to install a huge 35-tonne stone statue of Mao Zedong in Tibet • Earthquake in western Iran (6.0 magnitude) kills 66 • Supermodel Naomi Campbell arrested for allegedly assaulting her housekeeper • 57 including 18 Indians, die when a boat carrying 137 passengers capsizes near Manama, Bahrain • Iran testfires locally made missile • In Sri Lanka, UPFA sweeps the election to local bodies.



Storms Batter USA

1. Mars spacecraft begins orbit • Sayed Sadeq, speaker of a northern Afghan provincial legislature, shot dead by unidentified gunmen; **2.** Fernando Alonso wins the Australian Formula One

Grand Prix • First anniversary of the death of Pope John Paul II • Maoists abduct 56 people in Nepal • Saudi Arabia reduces the reservation for nationals from 30 to 10 percent in certain job categories • Election in Thailand • Iran testfires a new high speed underwater missile capable of destroying huge warships and submarines; **3.** Australia and China sign a nuclear safeguards deal • Iran says it will test more weapons in the next few days • Maoists announce ceasefire in Nepal • A research team identifies a new source of Nile in Rwanda's southern Myungwe Forest • Storms batter eight US states across the Midwest with tornadoes; **4.** Saxony is the worst-affected by floods in Germany • Scientists in Boston rebuild the bladder, a complex human organ, • Wen Jiabao is the first Chinese Prime Minister to visit Fiji • UN says it will take 10 years to get rid of the millions of land mines in 82 countries • British public tells Tony Blair to get out of Iraq • Charges that Saddam Hussein committed genocide against Kurds have been handed to the prosecution • Astronomers say they have spotted a cloud of alcohol in deep space that measures 463 b. km across • French Open winning men and women champions to get equal prize money • Women in Kuwait vote and run for of-

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the first time, in a local by-election; **5.** US Secretary of State asks for Congress support for the nuclear pact with India • Thailand Prime Minister Thaksin Shinawatra resigns; Chidchai Vanasatidya is interim premier • Nepal government arrests about 150 persons and clamps night curfew in the capital in an attempt to thwart the anti-king general strike; **6.** Luxembourg drops a proposed change in its takeover laws that would have helped Arcelor fend off Mittal Steel's \$25 b. takeover bid • Gold zooms to \$600 an ounce • 69 die as boat capsizes off Djibouti; **7.** Dan Brown wins the legal battle over claims that he had copied the idea of 'The Da Vinci Code' from another book • V. Vigne-swaran, a pro-LTTE Tamil activist, shot dead in Colombo • Over 750 held in Nepal on the second day of Opposition strike. **8.** Pakistan to go to the polls in February 2008 • Five inspectors from IAEA arrive in Iran to inspect the uranium enrichment and reprocessing facilities • Bomb kills four in Baghdad • A. Lukashenko of Belarus sworn in President the third time • Protester shot dead in Nepal • 'Casablanca' named No.1 on the list of 101 Greatest Screenplays, by Writers Guild of America; **9.** Brazil's first astronaut Marcus Pontes carried by Soyuz space capsule is back home from ISS; **10.** Explosion

kills 20 in Yuanning, in China • French President drops the controversial labour law • In Peru, no candidate wins 50 per cent of votes; runoff in May • Exit polls predict victory for Romano Prodi in Italian elections; **11.** 45 die in a blast at a park in Karachi • Romano Prodi claims a knife-edge victory in Italy's election • Roche launches its anti-lung cancer drug Tarceva • Iran enriches uranium to the 3.5 percent level needed to fuel nuclear power stations • Japan Princess Aiko starts kindergarten • US says King Gyanendra of Nepal has failed to solve the country's problems • Non-European doctors in UK must have work permit, say new rules • EU increases pressure on Palestinian government to recognise Israel by suspending all direct aid • Israeli Prime Minister Sharon is declared by cabinet as permanently incapacitated • LTTE listed as terrorist group by Canada; **13.** Iran again refuses UN call to suspend uranium enrichment activities in 30 days • LTTE calls for postponement of Geneva talks • IAEA chief El Baradei calls for a political solution to end Iran's nuclear crisis; **14.** Nepal's political parties reject king's renewed pledge to hold elections • China relaxes foreign exchange control • US claims to have broken up the nuclear proliferation network of Pakistan nuclear scientist Qader Khan • Chad to cut off

doesn't release funds frozen in a bank account in London • **41.** Taliban men killed in a battle with security forces in southern Afghanistan • Democracy activists seek Nepal King's exit; **17.** Army deployed in Nepal to ensure that food trucks reached Kathmandu on the 12th day of a strike • India-S. Africa trade records a 75 p.c. increase • Oil hits \$70 a barrel on fears of US action against Iran • China's economy records 10.2% growth in Q1; **18.** Crude oil surges to \$70.65 a barrel; **19.** Saudi King may mediate between India and Pakistan • South Korea has its first woman Prime Minister in Han Myeong-Sook • Blasts in Lanka claim 10 • Nepal violence claims sixth victim • France says Iran with nuclear weapons is unacceptable; **20.** Thousands take to the streets against the King in Nepal • Chinese President Hu Jintao has discussions with George Bush in Washington; **21.** 40 persons drown in Bangladesh bus crash • Protesters in Nepal want the King to leave the country • Talks between South Korea and Japan on a dispute over the Dokdo islets fail • Indian doctors in UK protest against new immigration rules • Sweden goes green aiming to phase out nuclear power and end dependency on fossil fuels • Milton's *Paradise Lost* to be turned into a movie epic; **22.**

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M.A.S.L.P. (Master in Audiology and speech language pathology) Reco. by RCI	2 years (4 semesters)	Pass in B.Sc (Speech & Hearing) / BASLP
B.P.T. (Bachelor in Physiotherapy) Reco. by I.A.P. & I.A.G.P.	4 years	Pass in 10+2 with not less than 45% marks in PCB
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BHS Hotel Management Degree	2 years	Pass in 10+2 in any combination
General Nursing Reco. by I.N.C.	3 years	Pass in 10+2, Preferably with science subjects.

Chinese flee Solomon Islands amid tensions in the wake of unrest • Nepal's political parties reject the King's offer of transferring executive power to the people; **23.** Michael Schumacher wins San Marino Grand Prix • Russia begins deploying advanced air defence systems in Belarus near NATO's eastern border • Sri Lanka calls upon the international community to exert more pressure including sanctions on the LTTE; **24.** Former Prime Ministers Benazir Bhutto and Nawaz Sharif plan to build a strategy to restore democracy in Pakistan • 22 dead and 150 hurt in blasts in Egyptian resort Dahab • Hannover Fair, opening today, has 5175 exhibitors from 66 nations, **25.** Sarath Fonseka, Commander of the Sri Lankan Army, survives assassination attempt inside the Army Headquarters; eight killed as a woman suicide bomber blows herself up; situation tense in rebel-controlled eastern Trincomalee district • 17 US States now have no-smoking laws; **26.** Maoists lift their blockade of Kathmandu and all district headquarters, in response to G.P. Koirala's appeal; **27.** Over 100,000 people meet in Kathmandu to hear party leaders on their plans for the country • India rejects Pak proposal to demilitarise J&K by pulling out heavy artillery; **28.** A feminist group in France wants to

scrap the title 'Mademoiselle' for young unmarried women • IAEA says Iran is continuing uranium enrichment • A Pak court bans cable operators from showing 'Taj Mahal', being screened in theatres • Parliament of Nepal meets for the first time in four years • Kaavya Viswanathan's novel *How Opal Mehta Got Kissed* being recalled from store shelves, after she admits to copying passages from another book; **29.** Pakistan testfires its nuclear-capable missile Shaheen II • Malawi Vice President arrested on treason charges • Russia warns NATO against deploying forces in Eastern Europe and granting membership to Ukraine and Georgia • Hyundai chief Chung Mong-Koo arrested, on charges of embezzlement • Iran President says the country will master nuclear technology at any cost • China ratifies pact on nuclear wastes • Football club Chelsea is crowned champion of England; **30.** Swedish King Carl Gusaf's 60th birthday • G.P. Koirala is sworn in Nepal Prime Minister • Coal mine gas explosion in China's Yanan city kills 24 • Outgoing Italian Prime Minister Berlusconi announces his resignation.

May

Gasline Explosion in Nigeria

1. Seven killed in Sri Lanka in two separate attacks • Ra-

cial tensions in Fiji as general elections approach • Protest in USA against changes in the immigration law • Asian bloc (India, Pakistan, Sri Lanka & Bangladesh) to host 2011 Cricket World Cup • 10 million people are affected by drought in China; **2.** According to IUCN, the number of threatened animal and plant species has risen to 16,111 • Canada orders a public enquiry into the 1985 bombing of an Air India plane; **3.** Kaavya Viswanathan's two-book deal cancelled by publisher Little, Brown & Co., after allegations of literary borrowing proliferated • An Armenian passenger jet crashes into the Black Sea off Russia, killing all 113 on board • Van Gogh's 'L' Arlesienne, Madame Ginoux' portrait of a French cafe owner sells for \$40 m.; **4.** Maoists in Nepal say they are ready to hold peace talks with Government • Arcelor says it would consider Mittal Steel's takeover bid if the order is large enough and made in cash • Fiji's military commander Voreqe Bainimarama advises troops not to vote for the ruling United Fiji Party; **5.** Australian swimming star Giaan Rooney, 23, retires to begin a new career as a TV presenter • BRIC countries with \$ 1.3 trillion surpass G7 in forex-gold holdings • Margaret Beckett replaces Jack Straw as British Foreign Secretary • Sudan

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government and the largest
 Darfur rebel group Minni
 Minnawi's agree to sign a
 peace plan; **7.** Asia Pacific BPO
 market likely to touch \$14 b.
 by 2010 • Chinese airlines are
 expected to double their fleet
 to over 1500 aircraft by 2010
 • Political appointments made
 by Nepal King Gyanendra in-
 validated • Berlusconi, Italy's
 outgoing Prime Minister, al-
 leges persecution by Left-
 wing adversaries • Sudan may
 accept UN Darfur force • In
 case of further pressure, Iran
 says it might pull out of NPT
 • In a chopper crash in Basra,
 five British soldiers are killed
 • FAO forecasts a fall in world
 cereal production; **8.** Gold at
 25-year high in global market
 - \$682 • Analysts forecast
 2007 oil prices around \$58 a
 barrel • Iran President writes to
 President Bush to end the 26-
 year hiatus between the two;
9. *Forbes* magazine names
 Jackie Chan as one of the 10
 most generous celebrities
 • Lakshmi Mittal agrees to re-
 vise his offer for Arcelor take-
 over upwards • 'Save the Chil-
 dren' report says each year 2
 m. babies die within 24 hours
 of birth in the developing
 world; **10.** Russian President
 Putin calls for a dramatic
 building of the country's de-
 fence • Georgia Napolitano is
 the new President of Italy
 • Russia has 100,000 alcohol-
 ics aged 14 or younger
 • Commission to investigate
 abuses of power during King

Gyanendra's absolute rule in
 Nepal • Fighting between mil-
 itias in Somalia, 122 die;
 Thousands flee Mogadishu;
12. Gas pipeline explosion re-
 sulting from villagers collect-
 ing fuel from the ruptured
 conduit kill over 200 in Nige-
 ria • Britain replaces US as the
 publisher of most new books
 in English • Ethiopian capital
 Addis Ababa is rocked by ex-
 plosion; **13.** Russia to make
 rouble fully convertible by
 mid-year • Zimbabwe's annual
 inflation rate soars to above
 1000 p.c. • Russian to halt all
 defence cooperation • Indo-
 nesia's Merapi volcano erupts;
14. Taliban's claim that Indian
 engineer Suryanarayana was
 killed at the instance of the ISI
 refuted by Pakistan • 10 die
 in Lanka violence • Tony Blair
 plans to step down next sum-
 mer; **15.** WHO is alarmed by
 the statistics that over 3,300
 people in the Western Pacific
 region die daily of road traffic
 accidents, suicides and
 drowning • Venezuelan Presi-
 dent Chavez in London; **16.**
 Earthquake of 7.5 over 700
 km. north-east of New
 Zealand under Pacific Ocean
 • Mark Inglis of New Zealand,
 a double amputee, conquers
 the Everest • US to restore full
 relations with Libya • Jacob
 Zuma reinstated as deputy
 president of South Africa's rul-
 ing party ANC; **17.** Romano
 Prodi sworn in Italian Prime
 Minister • No-trust motion
 against French Prime Minister

Arab leaders discuss new part-
 nership projects • Gunman
 storms Turkey's apex court in
 Ankara and kills a judge
 • Paul McCartney and wife
 Heather Mills to part ways
 • Gang violence toll in Brazil
 since May 12 reaches 133; **18.**
 59th Cannes Film Festival
 opens • Nepal's Parliament de-
 cides to drastically control the
 King's political and military
 powers by stripping him of
 the title of supreme com-
 mander-in-chief of the army,
 asking him to pay taxes and
 barring him from convening
 it; Nepal to be a secular state
 • Mittal launches its takeover
 offer for Arcelor • Bill Clinton
 to write a book on citizen ac-
 tivism and service for pub-
 lisher A.A. Knopf • Prime Min-
 ister Prodi wants Italy's troops
 out of Iraq • Taliban raid in Af-
 ghanistan kills 53 • Fiji Prime
 Minister Laisenia Qarase
 sworn in, second time • Paki-
 stan bans Bollywood actor
 Feroze Khan's entry into Paki-
 stan; **19.** UN tells US to close
 secret prisons • Fiji's opposi-
 tion Labour Party accepts
 PM's offer of seven cabinet
 posts • EU parliament asks
 members to freeze the ac-
 counts of LTTE • **28** Vietnam-
 ese fishermen die in storm • A
 film on the Beslan crisis of
 2004 to be made by merger;
20. A typhoon that raked the
 South China Sea kills 104
 people • Iraq has a new gov-
 ernment, with Prime Minister

Murial-Maliki • EU calls upon world powers to help Iran's nuclear and other industries if Teheran stops enriching uranium; **21.** Euronext and NYSE plan a \$20 bn merger; **22.** 'Col.' Ramanan, senior commander of LTTE, killed • *Da Vinci Code* reports success at box office • 60 Taliban fighters killed in US-led coalition's air strike in Kandahar • WHO Director General Dr. Lee Jong-wook dies after a surgery • Montenegro votes for independence in a referendum; **23.** 17 killed in attacks in Iraq • Moroccan athletics legend Iticham el Guerrouj announces retirement • Consumption taxes in India and China are the highest among Asia-Pacific countries; **24.** Economists say that oil may top \$100 a barrel if a new shortfall were to hit the tight crude supplies • Fiji opposition joins cabinet • 100 feared dead in floods in Thailand • Fire at Istanbul airport; **25.** Former Enron chief executives Kenneth Lay and Jeffrey Skilling found guilty on charges of fraud and conspiracy in the 2001 collapse of the company • Malaysia to issue multiple-entry visas for Indian and Chinese tourists • Clashes between radical Islamic forces and a US-backed warlord alliance kill 38 people in Mogadishu • 3000 people flee their homes in southern Afghanistan following heavy fighting between Taliban and

security forces • Five Kuwait women become the first females to register as candidates for parliamentary elections; **26.** Michael Jackson goes to Tokyo to receive MTV Video's Legend Award • H1-B visas doubled from the present 65,000 • Government - Maoists talks begin in Nepal; **27.** Earthquake measuring 6.2 rocks Yogyakarta in Java, killing about 3000, as per first reports • NAM institute for the Empowerment of Women being set up in Malaysia to be operational by Sept. • Russia's steelmaker OAO Severstal merges with Arcelor; Mittal to press ahead

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with his Arcelor bid • Kuwait plans to introduce income tax - a flat rate of 10 p.c. on everybody generating income proposed • VW is recalling 362,000 cars because of a brake light switch problem • Michelin head Edward Michelin, 43, dies in a boating accident • Hundreds of Somalis flee Mogadishu, after a day of fierce battles • Clashes in East Timor nearing a civil war situation • Aung San Suu Kyi's detention extended; 28. Java earthquake toll is around 5000; international aid pours in • Nepal government finalises a 25-point code of conduct with the rebels to take forward their dialogue process • Palestinian President Abbas calls for a referendum on a unity plan to end the power struggle between his Fatah group and the Hamas government • The \$4 b Baku-Tbilisi-Ceyhan oil pipeline to come as stream in a week • Papua-New Guinea and Tonga rocked by earthquake, 29. At Cannes, 'Palme d'Or' prize goes to British director Ken Loach for his film 'The Wind That Shakes the Barley' • China to ban smoking at public transport • 33 killed in blasts in Iraq • President Alvaro Uribe of Colombia wins second term • Pope visits Auschwitz • Riots in Kabul torch cars and buildings, 30. Daewoo Group founder Kim Woo-Choong sentenced to 10 years in prison for fraud

and embezzlement • Vodafone reports the biggest annual net loss in British corporate history owing to write-down of assets bought at the height of the telecom bubble • Pop diva Mariah Carey insures her legs for a billion dollars • Singapore evolves a strategy to record 117 m. visitor arrivals and achieve 30 b. Singapore dollars in tourism by 2015 • Russian rouble to be fully convertible from July 1 • Java earthquake toll is 5,700 • British House of Lord's ruling says homemaker and breadwinner are equal partners and so entitled to equal share in family's assets at divorce • US calls more troops for Iraq; 31. Deterioration in the security situation resulting from rivalry between Shia factions in Basra, Iraq's second largest city; Oil exports face a threat, as smuggling causes decline in revenues • USA is ready to join talks with Iran.

June

Mittal-Arcelor Merger

1. Japan's birth rate drops to a record low of 1.25 babies per woman in 2005 • Iran welcomes talks with USA but rejects the condition that Tehran suspend nuclear enrichment • Java earthquake toll is 6200, 2. Maoists stage public rally in Kathmandu • NYSE to buy Euronext for \$9.96 b. in cash and stock • Nissan Motor Co. and Suzuki Motor

Corp. sign agreement to expand their business collaboration, which is a shot in the arm for Marutii Udyog • John Lipsky is IMF's First Deputy MD • Katharine Close, 13, New Jersey wins National Spelling Bee spelling the word 'Ursprache' - the first female winner; 3. Pak court issues arrest warrants against Benazir Bhutto and her husband Zardari • Chinese government reaches the ceiling on the much in demand H-1B visas for 2007 • Thousands in Taiwan demand President Chen's resignation following an insider trading scandal involving his son-in-law; 4. Iran hints that if USA makes a 'wrong move', oil supply may be disrupted • Gunman kills 21 persons including 12 students in sectarian attack • Indonesia's 37th death from bird flu confirmed; 5. In Peru, Alan Garcia wins another term in election • World Newspaper Congress opens in Moscow • Shanghai Cooperation Organization (SCO) is not an 'alternative' NATO, says SCO Secretary-General Zhang Deguang • President Bush declares his support for a ban on gay marriage; Demolition of the last coal dam upstream of the Three Gorges Dam is complete • Hundreds protest in Mogadishu against an Islamist militia takeover of the city after weeks of bloody fighting with US-backed secular warlords; 7. 594 prisoners released in Iraq • UAE may c



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• Give a six-year residence visa for unskilled foreign workers; **8.** Al Qaeda's chief in Iraq Abu Musab-al-Zarqawi killed in an airstrike • J.K. Rowling voted the greatest living British writer in a survey, followed by Terry Pratchett, Ian McEwan, Salman Rushdie, Kazuo Ishiguro and Philip Pullman • China bans *Da Vinci Code* • Japanese entrepreneur Daisuke Enomoto to be world's fourth space tourist, who would fly to ISS in September • Colombia-LTTE talks at Oslo remain a non-starter as LTTE 'refuses' to meet the government delegation; **9.** The 2006 World Cup opens in Munich. Germany beats Costa Rica 4-2 • The first vaccine, Gardasil, to prevent cervical cancer wins US FDA approval • Tony Blair says he is not aiming for UN Secretary General's job • Norway blames LTTE for failure of peace talks • Survey says most Russians want Putin to serve a third term; **11.** Nepal Parliament strips the King of his right to veto laws • Opposition's 'Dhaka siege' demanding electoral reforms leads to police action • Fernando Alonso wins British Grand Prix • Three detainees in the Guantanamo Bay Navy Base commit suicide • Sierra Leone resents US-British plan to move Charles Taylor's war crimes trial from Freetown to the Hague • Israel and Hamas

are on a collision course, as Israeli peace activists demonstrate against the Israeli killing of seven Palestinians picnicking on a Gaza beach; **12.** Israel steps up threats against Palestinian Prime Minister • Pressure mounts on US to close Guantanamo Bay prison • Arcelor rejects Mittal's new offer; **13.** Lord Browne, CEO of BP, says crude oil price may fall to \$40 a barrel • General strike in Bangladesh to press for electoral reforms, violence reported • President Bush makes a surprise visit to Iraq • Al-Qaeda names Abu Hamza Al Mujahid as Zarqawi's successor in Iraq • The only Indian temple in Lahore demolished to pave the way for a multi-storeyed commercial building; **14.** Security measures in Baghdad strengthened with tens of thousands of extra personnel deployed throughout Baghdad • Fresh evacuations from village near volcano Mount Merapi; **15.** India's Shashi Tharoor nominated for the post of S-G, UN • Blast in a bus kills 64 civilians in Sri Lanka • Series of explosions rock the southern provinces of Thailand • Government and Maoists agree on Koirala - Prachanda meet • Major anti-Taliban operation in Afghanistan • Maoist rebel chief Prachanda tells Nepal King to abdicate or face execution • Britain offers to jail former Liberian President Taylor if he is convicted of war

crimes over S. Leone's war; **16.** Bill Gates announces his intention to leave his full-time role at Microsoft • Tony Cruise is No.1 on Forbes list of world's 100 most powerful stars • Chinese President says China is committed to forging a long-term strategic cooperative partnership with India • 40 militants killed in anti-Taliban action in Afghanistan • G.P. Koirala government and Maoists agree to share power in an interim Nepali government; **17.** Pakistan field a candidate for UNSC • Japan warns North Korea of a 'harsh response' from Tokyo and Washington if it fires a long-range missile • Iran says direct talks with US over Iraq are impossible; **19.** Aung San Suu Kyi, who is under house arrest, turns 61; **20.** Merrill Lynch World Wealth Report says the number of millionaires around the world rose 8.7 m. over the past year • Most courteous city in *Reader's Digest* survey is New York, and the rudest Mumbai • Nicole Kidman marry country singer Keith Urban • Conservatives are unhappy over the selection of a woman Archbishop for the Episcopal Church • Japan withdraw all soldiers from Iraq • China wants an Asian UNSC; **21.** Saddam Hussein's lawyer Khamis Al Obeidi killed • 150 die in Indonesian flood • Bush is for closing Guantanamo prison; **22.** The pair



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moons orbiting Pluto are named Nix and Hydra • The dismissal of 600 'rebel soldiers from the 1400-strong military by East Timor Prime Minister Alkatiri in March now develops into a rift with President Gusmao • Red Cross and Red Crescent movements extend membership to Israeli and Palestinian relief organisations. Red crystal emblem adopted for Israel's MDA; **23.** Chinese military personnel witness a war game solely conducted by US Army, for the first time • **22** die in bombings in Iraq • Seven arrested over an alleged plot to blow up the Sears Tower in Chicago • Agreement signed in Somalia between government and a faction that controls Mogadishu • World's oldest tortoise Harriet dies at 176 years in Australia; **24.** Nearly 150 suspected Taliban fighters have been killed since launching the major operation in southern Afghanistan • WHO finds that the first confirmed case of human-to-human transmission of bird flu issue was that of an Indonesian who died after catching the virus from his 10-year-old son • Vietnam Prime Minister Phan Van Khai to resign • Prachanda of Nepal proposes merger of Maoist army with Nepal army • A memorial for the Kanishka victims to be built in Toronto; **25.** Israeli soldier Gilad Shalit captured by Palestinian militants • Mittal

makes a fresh offer of 40.37 euro per Arcelor share; **26.** J.K. Rowling reveals that Harry Potter might be killed off in the seventh book in the series • Mittal steel and Arcelor to form a steel entity comprising world's two largest steel companies • World's second richest man Warren Buffett to donate 85 p.c. of his \$44 b. fortune (at \$ 1.5 b. a year) to Bill and Melinda Gates Foundation • East Timor Prime Minister Alkatiri quits; **27.** Ronaldo scores his record 15th World Cup goal • Blasts in markets in two Iraqi cities kill 40 • Nguyen Tan Dung is elected Vietnam Prime Minister • China bans use of tiger parts in traditional medicine • 111 rebels killed by government forces in Ethiopia • Israel masses force near Gaza • Ousted Prime Minister Alkatiri's supporters torch buildings in East Timor; **28.** France displaces US as the world's top investor abroad in 2005, says OECD • Pakistan may field Maleeha Lodhi for UNSG's post • Michael Jackson is moving to Europe to resume his music career • Jackie Chan to give half his fortune to charity • Montenegro becomes the 192nd member of United Nations; **29.** The micro car 'Smart' made in France, has two seats and gives 17 km per litre, is displayed in Detroit • Sri Lanka to make knowledge of Sinhala and Tamil compulsory for recruits to public service at

all levels • Parliamentary election in Kuwait, women vote the first time • GM to launch mini car in India next year • Floods in north-east US kill 10 • Arrest of several senior Hamas leaders; Israeli jets fly over President Assad's summer palace • Russian steelmaker Severstal's may drop Arcelor bid for \$176 m; **30.** 7-merger of Mittal Steel with Arcelor is now certain, as majority of Arcelor shareholders decide to say 'no' to Severstal offer • Pakistan not to accept MFN status to India as well as tariff concessions due under SAFTA which becomes operational on July 1 • Dutch Prime Minister J.P. Balkenende signs • Israel attacks Gaza with 30 air raids • Russia sells Ukraine sold banned long-range missiles to China • Iran.

July

World's Highest Railway

1. Qinghai-Tibet railway, the world's highest and longest highland railway, becomes operational • England crashes out of the World Cup; Argentina loses to Germany • First-ever Beijing Lhasa Express leaves Beijing at 9.30 p.m. and reaches Lhasa at 9 p.m. on July 3 • WTO talks fail • Brazil develops a new biofuel through a vegetable oil blend • 10 killed in a car bomb blast in Iraq • ULFA says it is ready for direct talks with the centr

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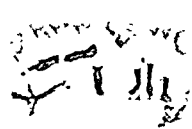
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 adal marks the end of Andre
 jassi's career • African Union
 immit in Banjul, Gambia
 ose Ramosttota, Nobel
 ace Prize Winner, being
 nsidered for Prime Minister
 East Timor; **2.** Gold may
 up \$700 an ounce again this
 ear, says GFMS • Office of Pal-
 stinian Prime Minister
 aniyeh blasted • Saddam
 ussain's wife and daughter,
 both living in exile, are on a
 ew list of most wanted fig-
 ures in Baghdad • Earthquake
 of 5.3 magnitude hits east-
 ern Indonesia; **3.** Seven killed
 n Sri Lankan violence
 • Prachanda calls his cadres to
 suspend the actions of the
 'people's court' in Nepal • Ri-
 val candidates claim victory in
 Mexican presidential election;
4. Finland broadcasts news in
 Latin • Pakistan to get 36 F-16s
 from US • First World Summit
 of Religious Leaders in Mos-
 cow is attended by 200 rep-
 resentatives from 40 countries
 • Number of internally dis-
 placed people due to conflict
 in Sri Lanka rises to 3 lakhs;
 EU announces Euros 7 m. in
 aid; **5.** North Korea testfires a
 series of missiles including the
 international Taepodong -2;
 UN holds emergency meet on
 North Korean missiles • 'Dis-
 covery' launched • Prince Tui
 Pele Haka of Tonga and his
 wife die in car crash near San
 Francisco; **6.** PM Bucko-vski
 concedes defeat to Opposi-
 tion in Macedonian parlia-

tinian civilians killed as Israel
 invades Gaza • Spaceshuttle
 'Discovery' closes -in on ISS;
7. Crude oil price tops \$75 a
 barrel • Lukas Podolski named
 World Cup's crown prince
 • Percy Sonn is new ICC Presi-
 dent • Toll in explosives blast
 in China is 47 • Rift between
 Sri Lankan President and op-
 position UNP widens; **8.**
 Amelie Mauresmo is the first
 French woman in 81 years to
 win the Wimbledon singles
 title. She beats Belgium's
 Justine Henin-Hardenne;
9. Russian passenger jet bursts
 into flames while launching at
 Irkutsk, Siberia, killing more
 than 122 people • Major Gen-
 eral Nanda Mallawarachchi is
 Sri Lanka's acting Army chief;
10. Italy beats France 5-3 to
 win World Cup football
 • Roger Federer is Wimbledon
 men's champion - the fourth
 successive win • Ramos Horta
 sworn in East Timor prime
 minister • 24 killed in Iraq at-
 tacks • China, Pakistan to
 renovate Karakoram Highway
 • Pak plane crashes into the
 field in Multan killing 45 • Co-
 lombian driver Montrya to
 leave Formula One • 27 killed
 in fighting in Somalia •
 Chechen rebel leader Shamil
 Basayev reportedly killed.
 Basayev is the most wanted
 man in Russia responsible for
 Beslan school hostage massa-
 cre • A report says violent rac-
 ism is on the rise in Russia; **11.**
 Tobacco will kill 1 b. people

officials • Marco Materazzi of
 Italy, admits he insulted
 Zinedine Zidane before
 Zidane head-butted him in
 the World Cup final • Sunnis
 end their boycott of Iraq's par-
 liament • Train accident kills
 33 in northern Bangladesh;
12. China's Liu Xiang gets a
 new world record in 110 m.
 hurdle at 12.88 sec. •
 Segolene Royal and Nicolas
 Sarkozy reported to be world-
 be presidential candidates in
 France • ADB disburses over
 \$11 m. for fighting bird flu
 • Israel launches raids on Leba-
 non • Muslim Conference
 wins half the seats in PoK As-
 sembly election • Ashwell
 Prince becomes the first non-
 white player to lead S. Africa
 in tests; **13.** Toyota recalls
 367,500 US Highlander and
 Lexus RX spark utility vehicle
 to fix faulty clips that may
 cause a console panel to fall
 on to the accelerator; **14.**
 Banks of Japan hikes interest
 rates-key rate is now 0.25 p.c.
 against zero • 16 killed in re-
 newed violence in Sri Lanka
 • Oil prices cross \$78 a barrel
 • Pakistan says Indian Prime
 Minister's comment that
 Mumbai bombers had re-
 ceived help from 'across the
 border' was baseless; **15.** Is-
 raeli warplanes pound
 Hezbollah's South Beirut
 stronghold • Gunmen kidnap
 Iraq's Olympic chief • Russia
 and US to expand nuclear ties
 with India; **16.** Gabriela



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Gianni Clerici in the Hall of Fame on Newport's grass courts • Tropical storm kills 48 in China • Pakistan says Benazir and Nawaz Shariff can't contest polls • Putin wants India and China in G-8 • Ferrari's Michael Schumacher makes Formula One history in France as the first driver to win the same Grand Prix eight times; **17.** G8 leaders meeting at St. Petersburg express solidarity with India where terrorist action crippled Mumbai on July 11 and express determination to continue fight against terrorism • US space shuttle *Discovery* is back after 13-day mission, landing in Florida • Prime Minister Manmohan Singh holds talks with President Bush at St. Petersburg - India is convinced that US has no intention to go beyond the scope of the Indo-US nuclear deal • Over 170 killed in floods in South China; **18.** Java tsunami death toll mounts to 340; 200 are missing; over 54,000 are displaced • Mittal Steel acquires 50 p.c. of Arcelor shares • China's economy grew by 10.9 p.c. in the first half of 2006 • UK bans Islamist militant group Al-Ghurabaa and the Saved Sect • Death toll from rainstorms and floods in China rises to 198 • Following fierce fighting between Israel and Lebanese militant group Hizbollah, internally displaced Lebanese

lages, and foreigners await evacuation • Blast kills 53 in Iraq • A Pakistan court issues arrest warrants for Benazir Bhutto and her husband for allegedly submitting false asset statements to the election commission; **19.** Britain to allow gambling ads on TV • Evacuation of foreigners in progress in Beirut • Serena Williams, back after a six-month lay-off, scores a victory • 6.2 magnitude quake strikes Indonesia, coasts of west Java and South Sumatra alerted • Israeli bomb blitz kills 54 in Lebanon • Nepal to hold constituent assembly election by mid-April; **20.** French footballer Zinedine banned for three matches for head-butting Italy's Marco Materazzi, who gets a two-match ban • Bill Gates to give \$287m. to help 165 scientists in 19 countries who work on an AIDS vaccine • Third day of fighting between Israeli troops and Hizbollah fighters of Lebanon • 42 die of bird flu in Indonesia; **21.** Israel mobilises reservists to reinforce units fighting Hezbollah gunmen in Lebanon • Crude oil is above \$74 • 30 persons in Europe die in heat wave • Khmer Rouge leader Ta Mok dies • Hizbollah chief rules out unilateral release of kidnapped soldiers • China's death toll from tropical storm Bilis more than doubles to 482; **22.** US to speed up delivery of precision

private firm in Virginia offer a trip to space for \$ 35m. • new James Bond novel to be published in May 08, to mark the centenary of Ian Fleming's birth • Ethiopian military personnel land at a Somali airport • Earthquake in China's Yunnan province kills 8; **23.** Saddam Hussein hospitalised after 16 days of hunger strike • American Floyd Landis wins Tour de France championship • UN says the devastation in Israel air strikes in Lebanon is horrific • Earthquake (6.1) hits Indonesia's Sulawesi island, kills 10 in Iraqi blasts • Cuban President Castro announces Venezuela's Hugo Chavez to be the Argentina boyhood hero of legendary guerilla Che Guevara; **24.** Miss Puerto Rico Zuleyka Rivera Mendoza is named Miss Universe in Los Angeles • India blames the failure of the WTO talks • Australian government issues rallying cry for its citizens to have more babies • Tiger Woods wins British Open Golf Championship • Nepal abolishes Military Secretariat • Bird flu reported in Thailand • Heat wave kills 10 in California; **25.** Washington Post reports that Pakistan is building a powerful new reactor for producing plutonium • Scientists find evidence of giant hydrocarbon lakes on Saturn moon Titan • India's Shashi Tharoor and South Korea's Ban Ki Moon

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emerge key contenders for UNSG in the first informal poll held by SC; **26.** In California, triple digit temperatures continue for the ninth day •Typhoon Kaemi batters east China's Fujian province, claims nine lives •Mittal Steel acquires 92 p.c. of Arcelor shares •Saddam Hussein says he was brought to court against his will •An Israeli air strike kills four UN observers in South Lebanon •UNSC condemns Israeli attack on a UN observer post in Lebanon which killed four peacekeepers •EAS countries express concern at the collapse of the Doha round of global trade talks •Number of Iraqis killed in war-related violence since the new government took over is put at 10,867 •US to send more troops to Iraq •Nine Israeli soldiers killed in fighting with Hizbollah; **27.** US House of Representatives votes for legislature providing greater access of sensitive nuclear technology to India •27 killed in Baghdad blast •Russia to sell Venezuela weapons worth \$3 b. •Nine killed in a new wave of Israeli attacks •Prime Minister Manmohan Singh calls for immediate halt to violence in Lebanon •EU Trade Commission Peter Mandelson blames the US for the WTO fiasco; **28.** Finland to pull out of the Sri Lanka Monitoring Mission on grounds of security •People fearing Israeli campaign on

border villages fear towards Christian dominated villages •A British scientist's study gives top place to Denmark, as the happiest country in the world, and Burundi the most unhappy, US is at 23, UK 41 and France 62; **29.** Muslims in Malaysia banned from using Botox injections for cosmetic purposes •Maoists in Nepal extend ceasefire by three months •Beirut university turns into a refugee camp •Paul McCartney files for divorce from Heather Mills; **30.** Sri Lankan troops capture a key reservoir in the north-east and kill 40 Tamil Tigers •20 Taliban fighters killed in Kabul •51 Lebanese killed, many of them children, in Israeli warplane outrage •Fire in Bahrain building kills 16 Indians from Tamil Nadu; **31.** Israel suspends air strikes on Lebanon for 48 hours •UNSC orders Iran to halt its nuclear programme by Aug.31 •Australian Prime Minister John Howard to seek a 5th successive term in 2007 election.

August

Fidel Castro steps down temporarily

1. Cuban President Fidel Castro steps down temporarily after intestinal surgery, handing over power to his brother Raul Castro •Nepal cabinet approves a legislature aimed at ending gender bias in monarchy •Govt. orders a

dren as domestic helps or as servants at hotels, etc.; effective from Oct. 10 •US says satellite pictures 'show' Pakistan has terrorist training camps in its territory •Israel bombs Lebanon, aiming to create a 30-km buffer zone •24 Sri Lankan soldiers killed by LTTE •Bombings and shooting kill 55 in Iraq; **2.** Hezbollah rockets pound Israel, and Israel steps up ground strikes by sending commanders •Writers John Irving and Stephen King urge J K Rowling not to kill Harry Potter in the 7th book •President Musharraf says without army, Pakistan will be like Lebanon •War for a water reservoir leads to Sri Lankan offensive killing 68 •10,000 North Koreans believed dead or missing in the country's worst flood in the century; **3.** Fighting kills 18 civilians in Muttur, Sri Lanka •132 Hezbollah rockets pound northern Israel, killing five •UN team in Nepal to study its role in resolving conflict •Iranian President calls for elimination of Israel •21 killed in Afghan car bomb attack •New Israeli air strikes on Beirut take toll to 900 •Typhoon Papiroon nears southern China, thousands evacuated. **4.** 40,000 persons are trapped in the Muttur town in Sri Lanka, humanitarian crisis •Israeli air strikes mount in Lebanon •25 Taliban men

killed in Afghanistan • Sania Mirza suffers her third successive defeat against Russian World No. 6 Elena Dementieva; 5. Following Pakistan's expulsion of Indian Visa Counsellor Deepak Kaul, India expels a Pakistan diplomat • In its reaction to UNSC deadline for Iran to suspend all fuel enrichment activities, Iran says it is ready for talks but won't change its policies under pressure; 6. Lebanon rejects the draft UN resolution calling for an end to the conflict • Egyptian Museum displays the mummy of Pharaoh Rames IV • Israel arrests Aziz Dweik, the Hamas Speaker of Palestinian Parliament • Afghan troops and police kill 17 Taliban men;

7. Nepal Maoists say peace talks are on the verge of collapse on arms issue • Tiger Woods is the youngest player in PGA history to win 50 titles • US says anti-Indian terror groups exist in Pakistan; 8. US lifestyle guru Martha Stewart agrees to pay SEC \$195,000 to settle civil charges of insider-trading • Arab nations urge withdrawal of Israeli forces from Southern Lebanon; Israel is studying Lebanon's offer to deploy 15,000 Lebanese troops along the border • 29 Thai provinces are hit by bird flu • UK thinking of ethnic quotas for jobs; 9. Iran President says pressure on his country can make it reconsider its adherence to the

NPT • Nepal govt. and Maoist rebels reach agreement on UN monitoring of their ceasefire and the management of the arms held • Indonesian bird flu toll is 45; 10. Highest security alert in Britain after police foil a plot to blow up aircraft in mid-flight between Britain and USA; Flights cancelled; Heathrow closed; thousands stranded; 11. Blogs reach 50 m. - a 100-fold increase in three years • UK freezes assets of 19 terror suspects • 29 killed in fighting between Sri Lankan army and LTTE • Air raids continue in Lebanon • Thaksin Shinawatra to contest Thai election in October; 12 Lebanese ceasefire resolution unani-

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ously adopted by U.S. •David Beckham not to be British captain •German novelist Gunter Grass admits serving in the Nazi SS during WWII •128 killed in Sri Lanka fighting; **13.** Earthquake (5.5) jolts Indonesia's Aceh •Fidel Castro of Cuba is 80 •Israel agrees to a ceasefire after its fighters fail to overrun Hizbollah in S. Lebanon •LTTE alleges that Rajapakse regime is for a military solution in Sri Lanka •Son of an Indian immigrant in London is among the 24 people arrested for the plot to blow up US aircraft •6-day global AIDS conference opens in Toronto; **14.** Global Wheat output for 06-07 put at 598 m. tonnes •Oil falls to \$73 a barrel, on West Asia truce •61 schoolchildren and 6 other persons killed in explosions in Colombo; the target was a Pak High Commission convoy •Roger Federer wins his second Rogers Cup in three years, in Toronto Masters •Nepal has a new Army Chief - Lt. Gen. Rukmangt Katuwal •China typhoon Saomai toll is 255; **15.** Australia shelves its Immigration Bill •Syria says US and Israel have lost their grip on West Asia •Dell to recall 4.1 m. notebook computer batteries made by Sony because they would overheat and catch fire •Japanese Prime Minister Koizumi's visit to Yasukuni war shrine triggers furore •Oliver Stone's film

debut at US box office over the weekend earning \$18.7 m.; **16.** Tri-nation cricket series put off; **17.** Floods kill 900 in Ethiopia; Omo river bursts its banks; more dams may burst •17 Lebanese army troops move into the south to help enforce the ceasefire •In renewed battle, 100 Tigers killed •NASA says original tapes of man's first landing on the moon in 1969 have been lost •World steel production in 2006 is 1.2 b. tonnes; **18.** Chechen rebel Umarov's brother surrenders •Namira Salim, a Pakistani artiste based in France, chosen by US firm Virgin Galactic for its commercial space flight in 2008 - the first Pakistani astronaut •SAF Games begin in Colombo; **19.** Israeli commandos launch raid deep inside Lebanon •President Rajapakse says his government is committed to peace and negotiated settlement in Sri Lanka •Marion Jones reportedly has failed in a doping test •Asfa Powell equals his own 100 m. world record (9.77 sec.) for the third time; **20.** Earthquake (7.2) shakes the South Pole •Sri Lankan army claims that 100 cadres of LTTE have been killed in latest Jaffna battle •Lebanon warns militant group against violating the ceasefire; **21.** Train crash kills 58 in Egypt •Tiger Woods clinches his 12th major title and third PGA crown; **22.**

crashes in eastern Ukraine •Marion Jones 'shocked' by report about her positive drug test •Serbian teenager Ana Ivanovic beats Martina Hingis to win the \$1.34 m. Rogers Cup title; **23.** The board game Scrabble to use tiles in pink to raise money for research into breast cancer •A Mumbai-based US airline flight returns to Amsterdam after alarm •Former Pak all-rounder Wasim Raja dies while playing; in London; **24.** International Astronomical Union meeting in Prague decides to relegate Pluto to the status of a 'dwarf planet' •"Pluto is a Planet" T-shirts being sold online •A study says as a result of global warming, spring now arrives 6 to 8 days earlier across Europe than in the early 1970s; **26.** Arousheh Ansari, Iranian-born US woman, to become the world's first female space tourist •Heavy water plant, with capacity to produce 16 tonnes a year, opened in Iran •Brazilian Felipe Massa beats Michael Schumacher in Istanbul •Umpire Darrell Hair in the news after his ball-tampering allegations against the Pak team playing in England; **29.** Rioting in southern Pakistan over killing of Bugti; **30.** 'World Trade Centre' film to donate \$2.6m. to 9/11 charities •40 killed in Iraq blasts •Pak authorities say the Baloch leader Bugti was killed in a cave col-

lapse • Israel rejects a call from Kofi Annan to lift its air and sea blockade of Lebanon; 31. Warren Buffett, 76, marries longtime companion Astrid Menks, 60 • Angry mobs protesting Bugti killing block rail line in Pakistan.

September

Pope Apologizes

Lockheed to build next spaceship for NASA • US says military action against Iran is possible • Maoists breach ceasefire code of conduct in Nepal • Shinzo Abe is a candidate for Japan Prime Minister • 10 killed as Iranian airliner catches fire at Mashhad • Germany's Angela Merkel is world's most powerful

woman, according to a *Forbes* magazine list. Condoleezza Rice is second, Wu Yi third, Indian-born Indra Nooyi fourth and Sonia Gandhi 13th • Slain Baloch leader Bugti buried under government supervision in Pakistan • Rebel astronomers to fight for Pluto's status; 2. 80 LTTE cadres killed in a naval battle; 3. Enforcement Directorate serves notice on Natwar Singh and son in the Iraqi oil-for-food scam • Miss Afghanistan Vida Samadzai, expelled from her country three years ago, denied permission to participate in Fashion Week parade in New Delhi • Sri Lanka freezes NGO funds • Opium poppy cultivation in Afghanistan hits

record levels; the country produces 90% of world's opium and heroin supply; 4. Sir Lankan army captures Sampur in Trincomalee district • Sudan asks all peacekeepers to leave • Europe's SMART-1 spacecraft slams into the moon, ending its three-year mission • Australian crocodile hunter Steve Irwin is killed in a 'freak' stingray attack; 5. Pakistan signs a deal with local Taliban militants in N. Waziristan • 60 Taliban militants killed in S. Kandahar, Afghanistan • Iraq to have a new flag in place of 'the Saddamist flag' • Human rights group wants investigation into Israeli use of cluster bombs in the fighting in Lebanon • Serge Girard completes

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 . Seven junior members of
 K's Blair government quit
 Pakistan withdraws an offer
 f safe haven to Bin Laden,
 fter US outrage • Maoist con-
 rolled unions rally for
 orker's rights in Nepal
 Japan's Princess Kiko gives
 irth to a baby boy, the first
 mperial male heir to be born
 a more than four decades
 Iran to cleanse school and
 niversities of liberal and secu-
 ar influences; **7.** A bronze
 uest of Kalidasa unveiled in
 hanghai • Marian Jones
 cleared of doping charges
 President Bush confirms ex-
 istence of a secret CIA prison
 network • British Prime Min-
 ister Tony Blair is to quit within
 a year • Israel lifts its air and
 naval blockade on Lebanon;
8. New video released by Al
 Jazeera shows Osama prepar-
 ing for 9/11, 2001 strikes; **9.**
 eander Paes and Czech part-
 ners Martin Damm enter US
 Open Men's Doubles final
 Campaign to oust Taiwan's
 President Chen • Space shuttle
 Atlantis with 6 astronauts
 blasts off • Pope visits Ger-
 many • UNGA adopts a global
 strategy to counter terrorism
 Former Iranian President M.
 hatami says atomic weapons
 f India, Pakistan and Israel
 ust be eliminated first; **10.**
 ariia Sharapova wins US
 Open • 115 LTTE men killed in
 i Lanka • Martina Navratilova

Lucy Tate, becomes Britain's
 youngest magistrate • Fifth
 anniversary of 9/11 • Russia
 tests missile from under ice-
 bound sea • Hamas and Fatah
 agree on the formation of a
 national unity government
 • Bangladesh Prime Minister
 Khaleda Zia suspects sabotage
 at polls • Fierce battles con-
 tinue in Jaffna • Roger Federer
 is US Open Champion - third
 Grand Slam title of the year
 and the ninth of his career;
12. Warring parties in Sri
 Lanka agree to unconditional
 peace talks • A terror attack on
 US embassy in Damascus
 foiled • Over 50 killed in a
 stampede at a stadium in
 Yemen; **13.** President
 Musharraf says Indo-Pak rela-
 tions have never been so good
 • According to UN, US has the
 largest inflow of migrants, Af-
 ghanistan is second. India is
 fourth on migrant outflow
 list • First bird flu case reported
 in Sudan • A blast kills 10 in
 Turkey • Sri Lanka ready for
 talks if violence stops; **14.** Hol-
 lywood superstar Nicole
 Kidman is Australia's richest
 woman under 40, with a \$150
 m. fortune • Bird flu toll is 49
 in Indonesia • The first ordina-
 tion of rabbis in Germany
 since WWII held • Iran is opti-
 mistic about its talks with EU,
 but not so with US • Seven
 killed in Sri Lanka violence
 • Russia's top banker Andrei
 Kozlov shot dead • A report

The new Japanese prince is
 named Hisahito • Iraq to ring
 Baghdad with trenches to
 protect the city • Muslims
 across the world protest
 against Pope Benedict's refer-
 ence to Islam in relation to vio-
 lence during his visit to Ba-
 varia; Vatican says Pope
 meant no offence; **16.** Pope
 apologises to Muslims for his
 speech on Islam • Security
 forces gun down four LeT mili-
 tants in J&K • US says it can
 go to Pakistan looking for
 Osama only if invited by Paki-
 stan; **17.** Global Day for
 Darfur (Sudan) sees protesters
 around the world calling for
 an end to the fighting; **18.** 11
 Muslims hacked to death in a
 jungle in eastern Sri Lanka
 • World's first woman space
 tourist blasts off on a Soyuz
 rocket from Baikonur • At-
 tempt on Somali interim Presi-
 dent A.Y. Ahmed's life; **19.**
 Thai military stages a blood-
 less coup against Prime Min-
 ister Shinawatra • Moldova's
 breakaway province of Trans-
 Dniester votes to become part
 of Russia; **20.** A new ring is
 spotted on Saturn, NASA says
 • Gold price falls to \$572.30
 an ounce • Coup leader Gen.
 Sonthi Boonyaratglin says ci-
 vilian rule will be established
 in Thailand in a fortnight
 • Hewlett Packard marks 100
 millionth printer sale • Shinzo
 Abe to be next Japanese Prime
 Minister; **21.** Muhammad

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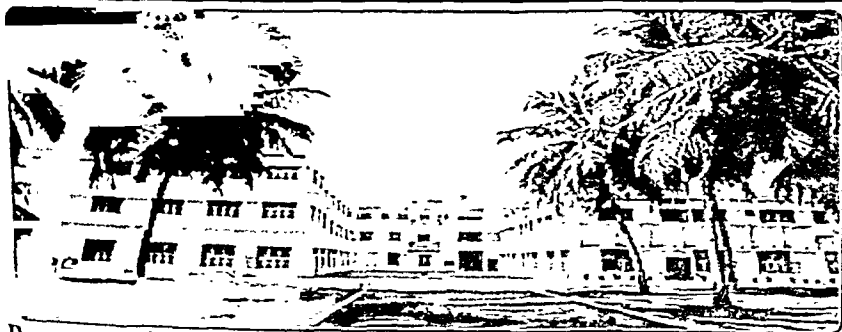
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Nobel to Younus of Bangladesh

Ali's daughter Laila Ali to make her debut at Madison Square Garden in November • China's telephone users now exceed 804 m., of which 437 are mobile phone subscribers • California sues six world automakers over global warming • Musharraf says Pakistan has 'certain apprehensions' over New Delhi sharing information on Baluchistan • Atlantis, the US space shuttle, lands in Florida safely • Thailand's coup leaders ban political activities • 100 people may have died in Bangladesh storm • Deposed Thai Prime Minister Thaksin asks for early elections; 22. Bush wants Kashmir issue resolved bilaterally • A trans rapid high speed train crashes into a service vehicle in Germany • China's population of the elderly to become 174 m. by 2010; 23. A French secret service report says Osama bin Laden has died of typhoid; 24. Asian stocks fall for the third week • Saudi Arabia has no evidence that bin Laden has died • Martina Hingis wins Sunfeast Open, in Kolkata • 20 killed in violence in Iraq; 25. Crude fortunes in New York fall below \$60 a barrel, on reports that Iran favoured talks on its nuclear programme • Sri Lankan navy claims to have sunk 11 LTTE boats, killing 70 separatists • Afghan President says Osama may be hiding in Pa-

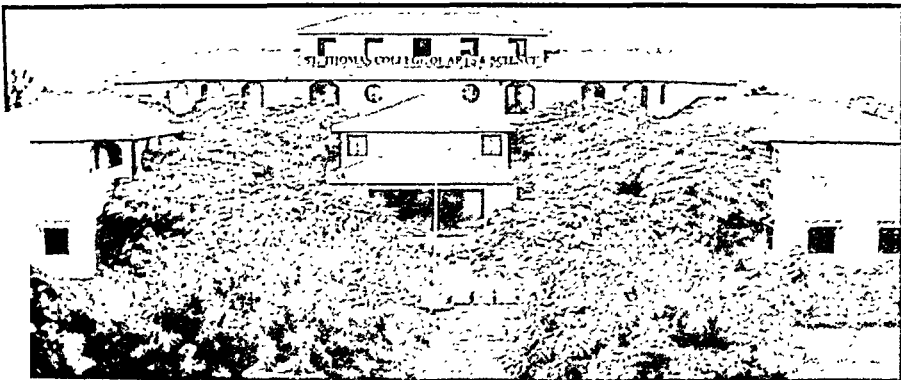
kistan • Saddam Hussein sent out of court • Chopper missing in Nepal for three days found, all 24 on board dead • Pope wants inter-faith dialogue for peace; 26. Taliban source says bin Laden is alive and well; 27. US falls to 6th place in World Economic Forum's 2006 global competitive rankings • Guatemalan security forces take over a prison, controlled for more than 10 years by inmates who produced drugs and lived in spacious homes; 28. Gold trades above \$600 an ounce • Dow Jones index rises to 11,724.86, surpassing a record close of 11,722.98 on 11/1/2000 • Inzamam-ul-Haq cleared of ball tampering charges, but there is a four-match ODI ban for leading a protest against the umpires • Pakistan says Osama could be in Afghanistan • China conducts fusion reactor test successfully • 28 killed in Iraq blasts • Typhoon Xangsane wreaks havoc in Philippines; 29. South Korea's candidate Ban Ki-moon leads straw poll for UN SG's post • Anousheh Ansari, the space tourist, returns; 30. Brazilian plane Boeing 737 with 155 crashes after colliding with a smaller aircraft, over Amazon jungle • French socialist Segolene Royal enters race to be President • Talks by visiting President Musharraf and Tony Blair in London on Indo-Pak ties and terrorism.

1. Michael Schumacher wins Chinese GP to tie with Alonso in F1 championship • Tatiana Kucharova, 18, of Czech Republic is Miss World; 2. Suraynd Chulanont is the new Thai Prime Minister • Sporadic gun battles in Palestinian areas • Russia imposes a total economic blockade on Georgia • Shootout in a Pennsylvania school kills five children; 3. LTTE agrees to hold unconditional talks with Sri Lankan Government • A Turkish plane with 107 passengers from Tirana is hijacked to Italy's Brindisi airport • US population reaches 300 m • North Korea to conduct a nuclear weapon test • Fighting erupts in Darfur, Sudan, killing 40. Aid workers flee Greida; 4. Nicaragua plans a \$20 b. rival to Panama Canal • 58th Frankfurt Book Fair opens with 7272 exhibitors from over 100 countries; 5. Colombo -- LTTE talks to be held on Oct. 28 and 29 in Switzerland • NATO assumes control of international forces across Afghanistan • Thai martial law to continue • Fredrik Reinfeldt is approved as Sweden's new Prime Minister; 6. Main Sri Lankan parties agree to reach consensus on ethnic issue • Russia deport 150 Georgians; 9. North Korea says it has successfully con-



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ducted an underwater nuclear test 'under secure conditions'. Bush calls it a threat •UNSC recommends South Korea's Ban Ki Moon to General Assembly as S-G; **11.** Kiran Desai wins the Booker Prize •Intense fighting results in the death of 22 Sri Lankan soldiers •North Korea warns of more nuclear tests if US keeps pressuring it; South Korea asks UN to send a 'clear and firm' message to North Korea; **12.** Turkey's

Orhan Pamuk wins Nobel for Literature; **13.** Nobel Prize for Peace won by Bangladesh's Grameen Bank and its founder Muhammad Yunus •Cambridge Varsity shuts door on Sanskrit as a subject of undergraduate study; **14.** First International Rome Film Festival begins; **16.** Shoaib Akhtar and Mohammad Asif fail a drug test; **19.** Heather Mills says Paul McCartney tried to kill her •Muhammad Yunus may

launch a political party • of globe to be mobile by of the decade •Dow Jo sails past 12,000 mark; Opec to cut oil output by m.barrels a day from Nov **21.** 'Hong Kong Protocol' new liver transplant proto can halve Hepatitis B surg costs •35 Tiger rebels ki in Sri Lanka sea battle. Britain to reduce Hous Lords in size by more th third.

Calendar of Events, India

November, 2005

New CM for J&K

1. Y.K. Sabharwal is sworn in new Chief Justice of India • Former President K.R. Narayanan in hospital •Delhi reacts to President Musharraf's suggestion on demilitarising both sides of Kashmir saying that it could not be done unilaterally; **2.** Ghulam Nabi Azad sworn in J&K Chief Minister ; **3.** India wins Videocon Cup beating Sri Lanka in ODI series in Pune. •Congress to send a legal notice to the parties concerned on the Volcker Committee report; Govt. is concerned about the unverified references; **4.** Rupee touches year's low against US dollar at 45.52 • HRD Ministry asks all Ministers and Departments of Central and State Governments to in-

clude the mother's name in all certificates and documents; **5.** Union Minister of State for Water Resources J.N. Yadav (of RJD) resigns, after warrants, were issued against him for 'forcibly' securing the release of his brother from police custody; **6.** Sam Manekshaw, 96, moved from Wellington to New Delhi for treatment • Stampede at a relief distribution centre in Chennai kills six; **7.** Number of cotton growers committing suicide in Vidarbha crosses 100 • Foreign minister Natwar Singh demoted to Minister without portfolio •Kerala ranks first in gender report by National Productivity Council, followed by Tamil Nadu, Punjab and Gujarat • Czech President V. Klaus in New Delhi; **8.** Sensex climbs to 8317 •Prime Minister says there is no

evidence against Natwar Singh or Congress in the Volcker report •BSNL's profit crosses Rs.10,000 cr. in 2005 •Kerala High Court rules nuns and priests can enter temples advocates; **9.** Former President K.R. Narayanan, 85, discharged from Army hospital, Delhi; **10.** Government announces a reduction in entry fee for NLI •IILD telephone players to form Rs. 2.5 cr. from Rs. 1.5 cr. and 25 cr. respectively •Supreme Court quashes order passed by UP's Mulayam Singh government withdrawing POTA charges against Minister R.P. Singh alias Bhैया •11th Kolkata Film Festival begins • Former President K.R. Narayanan cremated in New Delhi with full state honours in the presence of President Kalam and



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Federal Bank and Lord Krishna Bank call off the merger of the two banks; **11.** Prime Minister Manmohan Singh in Dhaka for the 13th SAARC summit • CBI brings back Abu Salem, a most wanted terrorist and the prime accused in the 1993 Mumbai serial blasts and his girl friend Monica Bedi, after a three-year legal process in Portugal; **12.** Prime Minister Manmohan Singh offers open sky policy for SAARC, at the Dhaka summit • Oct. 29 Delhi serial blasts suspect Tariq detained • Kerala gets 539 of the 1047 scholarships for the single girl child announced by HRD Ministry • Naxal attack in Jehanabad jail, Bihar kills six persons; **13.** Abu Salem 'confesses' role in '93 serial bomb blasts in Mumbai, says a CBI official; **14.** Keralites pay homage to former President K.R. Narayanan as the urn containing his ashes is brought to the State • Naxals kill eight Ranvir Sena men kidnapped during the attack on Jehanabad jail • Former UP minister Raja Bhैया surrenders • Mizoram bans import of birds and pigs from neighbouring Myanmar and Bangladesh; **15.** The dedicated Lok Sabha satellite channel to telecast 24 hours a day • Left parties warn Government of serious consequences if it votes in favour of referring the Iran nuclear issue to UNSC • Two die and 60 are injured as militants carry out a grenade attack on former minister

Tangmarg • Stamp scam accused Telgi's wife Shahida surrenders; **16.** Finance Minister says disinvestment in a few non-Navratna PSUs is contemplated • Srinagar car bomb blasts kills four and injure 45 • Fifth crossing point for aid supplies opens in Uri; **17.** FDI upto 20% permitted for FM radio; **18.** In a limited cabinet reshuffle, Manmohan Singh retains the External Affairs Ministry. Information & Broadcasting Ministry goes to Priyaranjan Dasmunshi, Urban Development to Jaipal Reddy and Sports & Affairs of Overseas Indians to Oscar Fernandes • Kerala High Court rules that misuse of public interest litigation for publicity should be dealt with an iron hand • 68 p.c. voter turnout in Thiruvananthapuram Lok Sabha byelection; **19.** As Monica Bedi tells the court that she was not married to Abu Salem, India presses for the extradition of his ex-wife Samaira Jumanji from the US; **20.** About 155,000 candidates take the Common Admission Test (CAT) for entry into IIMs and 75 other management schools in the country; **21.** Kingfisher Air orders 30 Airbus A320s • 85 Indian companies now have market capitalisation above \$ 1 billion • Gold sets new record at Rs.7415 / 10 gm • B. Maniappan, a member of the Border Roads Organisation, is kidnapped by the Taliban in

(U) leader Nisith Kumar wins a resounding victory in Bihar Assembly election • In Mumbai North-West, Sunil Dutt's daughter Priya Dutt beats Sena candidate by 172,043 votes; • Rs. 1 lakh crore Jawaharlan Nehru National Urban Renewal Mission covering 60 cities to be set up; **23.** India tops the list of Global IT and BPO services locations 2005, China and Malaysia are second and third in A.T. Kearney's survey • Indonesian President Yudhoyono in New Delhi • BRO employee Maniappan Raman Kutty abducted by Taliban in Afghanistan slaughtered, body found in Nimroz province, Govt. announces Rs. 10 lakh relief for family • Three CRPF jawan killed in fidayeen attack in Srinagar; **24.** In Bihar Nitish Kumar sworn in Chief Minister, the first NDA government of JD(U) and BJP • IFFI festival begins in Goa • Opposition demands resignation of UPA chairperson Sonia Gandhi, and forces adjournment of both Houses of Parliament over the Volcker Committee report; **25.** Sensex closes at an all-time high of 8853.21 • Rolls - Royce set up an Indian subsidiary, in a tie up with QUEST • Ramankutty Maniappan, the BRO employee killed by Taliban, cremated in Kerala with full State honours • Rabri Devi is elected RJD leader, thus becoming Opposition Leader in Assembly; **26.** 145 passengers feared killed when

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floods in Tamil Nadu - one at Puttukkottai and the other at Sanaveli • Gold reaches a new high of Rs. 7400 per 10 gms • Mizoram passes the Organic Farming Act, the first state to do so • Vijaypat Singhania becomes the first man to sail at 69,852 feet above sea level on a hot air balloon • Government to deploy women commandos as sky marshals • Tension mounts in Shiv Sena with difference between Raj Thackeray and cousin Uddhav • Sachin Tendulkar is back among the top 10 in the latest LG-ICC Test players rankings; **27.** India Economic summit 2005 in New Delhi • Raj Thackeray resigns from Shiv Sena's executive committee • National Security Adviser M.K. Narayanan says abduction and killing of BRO employee Maniappan Kutty in Afghanistan was the result of a 'conspiracy' between Pakistan and Taliban • Aishwarya Rai is to star in the new Asterix and Obelix film; **28.** FIIL investments take sensex to above 9000, for the first time; market cap soars to a record Rs.23.56 lakh crore • Investment of Rs. 10,000 cr. expected in special economic zone infrastructure in the next three years • Rupee breaches the 46-mark again • Defence Minister Pranab Mukherjee tells Lok Sabha that NSA was misquoted, and Govt. had made all possible efforts to get the release of Ramankutty

pressed inability to help as it didn't have relations with Taliban • Kanchi Sankaracharya appears before the Sessions Court in Pondicherry in the Sankararaman murder case • Gold is Rs. 7585 / 10 gm; **29.** Amitabh Bachchan, now in hospital, has collitis • Sharad Pawar is elected President of BCCI, ending Jagmohan Dalmiya's 21-year-old hold on world's richest cricket body • Prime Minister Manmohan Singh wants India, averaging a 7.5% growth now to target 10% growth in two to three years • Dual citizenship for PIOs to be launched in January 2006 • Shivaraj Singh Chauhan sworn in 28th Chief Minister of Madhya Pradesh; **30.** Uma Bharti, senior BJP leader and recently appointed General Secretary, suspended • Amitabh Bachchan undergoes surgery for an intestinal problem • A study by a private agency puts ONGC as the biggest wealth creator - Rs. 103,000 cr. in 2000-05 • RBI to set up an independent body called The Banking Code and Standard Board of India by Jan.1 • Border Security Force (BSF) to raise a women's battalion.

December

Sachin, No.1 test century taker

1. President APJ calls for creating a network of rivers in

Cauvery with other rivers ; **2.** Rupee dives to a fresh 14-month low of 46.11 against the dollar • Finance Minister Chidambaram says the rising movement of the stock market index reflects the buoyancy and confidence in the economy • Dual citizenship scheme launched for overseas Indians, except in Pakistan and Bangladesh • NDA steps up its offensive against UPA govt. on the Volcker Reports and asks for Sonia Gandhi's resignation ; **3.** Prime Minister Manmohan leaves for Moscow on a three-day visit. • CJI Y.K. Sabharwal says 26 m. cases are pending before different courts in India, of which 18 m. are criminal cases • Indian mutual fund industry registers a 30 percent growth, says AMFI chairman A.P. Kurian; only one percent of people have invested in mutual funds; **4.** Sijo Jose, in the custody of US-led forces in Iraq for four months, released • Taliban denies killing BRO employee M.R. Kutty • Golden Peacock at IFFI goes to Iran's 'Iron Island' (dir. Mohd Rasoulol) • Bajrang Dal activists in Mumbai beat up three people distributing copies of the Bible; **5.** Chipmaker Intel to invest \$1 b. in India • Bill Gates arrives in India for a four-day visit • Natwar Singh dropped from Congress Steering Committee • On-screen smoking ban to be effective from Jan.1 • SC stays Wakf Board order on

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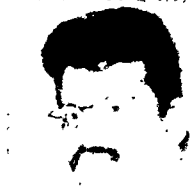
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the title of Professor Honoris Causa at Moscow University; **6.** MUL is recalling 2217 Versa vans to fix a possible fault in the exhaust system • Union Minister K. Natwar Singh announces resignation, following the Volcker Report controversy • Major R.S. Rathore wins the gold in double trap event at National Shooting Championship • Naushad, a Keralite in Saudi Arabia, is directed by court to give one eye to the person whose eye was lost during a scuffle with him; **7.** EPF interest rate fixed at 8.5% for 2005-06 • Kerala Chief Minister to take up with Prime Minister the case of Naushad, a Keralite in Saudi Arabia who will lose an eye if a court verdict is implemented • The Left says they are ready for talks on sale of shares of profit-making PSUs • Microsoft to open offices in 33 Indian cities and to invest \$1.7 b. over the next four years • Indian Airlines has a new name, 'Indian', and a new logo inspired by the Sun Temple at Konark • Cell phone users are 55.31 m. now; **8.** Gold sets new record at Rs. 7885/10 gm. • Shamilla Tagore is appointed Goodwill Ambassador for UNICEF in India; **9.** Sensex reaches 9067 • Government rules out any enquiry by a JPC into the Volcker Committee report; **10.** Sachin Tendulkar is world's highest test century maker as he surpasses Sunil

Delhi • Cyclone 'Fanoos' weakens into a deep depression; **11.** Amritsar-Lahore bus (through the Wagah border) has trial run in Islamabad • Prime Minister Manmohan Singh leaves for Kuala Lumpur to attend ASEAN meet • Gangster Abu Salem is suffering from insomnia and memory loss • The Centre to set up a National Commission for Child; **12.** Gold prices cross Rs. 8000 - mark • Parliament is rocked by a new corruption expose aired on Hindi news channel Aaj Tak video footage showing 11 members taking money in order to raise questions in the House • Disaster Management Bill passed by Parliament • BJP-ruled States to adopt VAT • Karnataka to change Bangalore's name into Bengalooru next year • Pune airport turns international • BSE Sensex crosses 9200 mark • MFs and FIs allowed to participate in gold, silver and crude futures; **13.** Earthquake of 6.7 magnitude hits parts of Kashmir, Pakistan and Afghanistan • Rajya Sabha member C.S. Lodha suspended • A 6.8 intensity tremor jolts Kashmir again; **14.** Uttaranchal hit by earthquake (5.2 on Richter) • Narayana Murthy of Infosys ranked eighth in the list of world's most admired business leaders in a study by Burson-Marsteller with Economist Intelligence Unit • MUL has plans to make a luxury sedan (code YY4)

large-scale multiple application case in the recent YES Bank IPO • Women constitute only 6 p.c. of total workforce in corporate houses • Kolkatans come out in protest against Saurav Ganguly being dropped from the Indian team • Uma Bharti wants L.K. Advani to resign • Jagat Singh, son of Natwar Singh, questioned by Enforcement Directorate for seven hours; **16.** Exclusion of Saurav Ganguly from cricket team raised in Lok Sabha • Steel tycoon Lakshmi Mittal (\$20 b.) named the richest Indian by Forbes Asia's second annual list of the 40 richest Indians • VAT to be introduced in six more States in April, 2006 • Li Shaohong's 'Stolen Life' (China) bags the Golden Crow Pheasant Award (Suvarna Chakoram) (best feature film) and Chinese director Lu Chuan wins best director award at International Film Festival of Kerala; **18.** Demolition of illegal constructions in Delhi in progress • 42 die and 37 seriously injured in stampede at a flood relief centre in Chennai • Raj Thackeray resigns from Shiv Sena • More Karnataka cities to have new names from November next • President Kalam hands over certificates of 500 houses for tsunami victims constructed by Amrithanadamayi Math, at Kollam in Kerala; **19.** Government to divest 8 percent in Maruti • Sensex closes at 9394



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after touching all all-time intra-day high of 9402.68 • Wipro acquires Austrian chip design firm New Logic for Euro 47m. • Air Sahara wins the rights for the sponsorship of the Indian cricket team • Hindustan Latex launches 'Confidom', the country's first female condom • 178 cotton farmers of Vidarbha commit suicide this year • 88 buildings bulldozed in Delhi, as protests continue; **20.** Constitution Amendment Bill to reserve seats for socially and educationally backward classes in private unaided educational institutions tabled in Lok Sabha • Assam CM offers safe passage to ULFA leaders whenever they come for direct talks with the centre • P.A. Sangma returns to NCP • Pfizer launches Viagra in the Indian market • FIIL investments in India in 2005 put at \$10 b; **21.** Street protests follow beating up of young couples in a park in Meerut; UP Govt. orders an enquiry • Constitution (104th Amendment) Bill passed in Lok Sabha, providing reservation for SCs & STs in unaided private educational institutions • Amritsar-Lahore bus service to commence on Jan.20 • India's first wax museum to be set up at a water amusement park at Kanyakumari, Tamil Nadu • Supreme Court holds that marrying an upper class Hindu won't give a SC/ST woman the SC/ST status; **22.** India beats Sri Lanka by 350 runs in 2nd test

Kumble, in his 100th game, finishes with 5 wickets in second innings • INSAT-4A launched successfully, the first to meet the needs of DTH tv service • Mobs go on rampage in Morena, M.P., protesting murder of former BSP President P.P. Chaudhary and son • Pawan Kumar Bansal Committee finds 10 M.P.s guilty in 'cash for questions' scam • Platinum jubilee celebrations of Kerala Kalamandalam begin ; **23.** Eleven M.P.s, 10 from Lok Sabha and one from Rajya Sabha, expelled in connection with 'cash for questions' scam - a development unprecedented in the history of parliamentary democracy • Cold wave death toll in northern India reaches 65 • Demolition by Municipal Corporation in Ulhasnagar, Mumbai, where 855 illegal flats have been named, resumed; **24.** Former Chief Minister Rajnath Singh tipped to take over as BJP President • Saurav Ganguly is recalled to the Indian team squad for the tour of Pakistan • Fog engulfs most parts of north India • IGNOU launches a full-time PG course in community cardiology; **25.** UN peacekeeper from India killed in an attack by Ugandan rebels in DR of Congo • Earthquake of 5.8 felt in Srinagar • A.B. Vajpayee is 81 • Four RPF men gunned down by Maoists in Visakhapatnam; **26.** Sensex plunges by 171 points • BJP na-

collect user's fee from pagers from CIAL from Jan.27 • BSP expels four of its MLAs including three who were involved in the 'cash for questions' scam • Home Ministry says India needs Rs.35,000 crore to cope with the major natural disasters that struck India in the past one year; **27.** Sensex surges by 197 points • BJP is on national disaster list for way ticket cancellation charges almost doubled in a bid to encourage touts • BJP General Secretary Sanjay Joshi resigns following a sex scandal • Sri Lankan President Rajapakse's maiden visit to India • Grave unearthed in Gulbarga Panchmahal district. Skeletal remains found are reportedly of a man killed in Godhra riots; **28.** Identified gunman attacked in Bangalore killing an IT professor and injuring three others • Sri Lankan President Rajapakse and Prime Minister Manmohan Singh agree the urgency to begin talks to revive the peace process • 50,000 houses for families affected by development projects in Mumbai opened by Gandhi • Underworld operative Abu Salem put to lie detector test • Bollywood superstar Aamir Khan ties the knot with Kiran Rao, his longtime girlfriend • Centre asks Gujarat government to submit a report on mass grave found in Panchmahal district; **29.**

wants an inquiry • SEBI recommends short selling by institutional investors • Chief Minister confirms that the terror attacks on IISc, Bangalore was the handiwork of terrorists; IT firms step up security • Rubber price reaches Rs. 71 per kg • Cabinet clears a proposal for declaring Jaipur an international airport • Bihar P.S.C.

Chairman Ramsinghasan Singh arrested for alleged involvement in irregularities in appointments; 30. BSE ends the year at 9397.93, a gain of 42% in 2005; sensx is third best in Asia • BSNL cuts fixed line rental by 28% • Rural indebtedness is 27 percent, as compared to 23 percent in

1991 • LeT hand suspected in Bangalore IISc strike • According to Assocham, India's trade with SAARC countries, now Rs.25,000 cr., may touch 50,000 cr. by 2010, and 100,000 cr. by 2015 • A.B. Vajpayee to retire from active politics; 31. • L.K. Advani resigns as BJP President.

January, 2006

Sania Mirza, Youngest

Padma Shri

1. India and Pakistan exchange list of their respective nuclear facilities • Rampur-Shyamchak village of Vaishali district (Bihar) witnesses burning to death of a woman and her five children, after her hus-

band refuses to withdraw a police complaint about the theft of a buffalo • An Assocham study puts the corporate tax paid by top 50 business houses in 2004-05 at Rs. 8,995 cr. • 12-year-old Parimarjan Negi becomes the youngest IM • India's forex reserves stood at \$144b. on Dec. 23; 2. Prime Minister Man-mohan Singh spells out implementation, investment and infrastructure and employment generation as priorities for 2006 • 93rd Indian Science Congress inaugurated by Prime Minister in Hyderabad • Police bust a terrorist plot in Hyderabad, seizing explosive devices and arresting two • Air Sahara

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ffers New Delhi- London trip t Rs. 10,000 (return fare) on first-come first-served basis • 500 Shiv Sainiks quit the Sena and join Raj Thackeray • Pro-est against proposed steel plant results in death of five tribals in police firings; **3.** Sensex closes above 9500 with 719 stocks hitting upper circuit on BSE • Prime Minister calls for a second Green Revolution, with focus on non-food crops, horticulture and new plant varieties • A top militant of L-e-T, Abdul Rahman, arrested in connection with terror attack on IISc; **4.** The number of BSNL mobile subscribers reaches 14 m.; **5.** Railways opens up containerised operation to private sector • Chilly weather prevails in north India with 177 deaths so far; • Allahabad HC strikes down AMU Amendment Act conferring minority status to the university • 5-MW solar plant to be set up in Rashtrapati Bhavan; **6.** French ship Clemenceau, headed towards India, should not enter the country, recommends Supreme Court Monitoring Committee on Hazardous Wastes Management • Munnabao-Khotrapar rail service to be resumed from Feb. 1 • Leh airport to be renamed Kushok Bakula Rimpoche airport, after the Head Lama of Ladakh • C-DAC to release software tools and fonts in seven more Indian languages • Four new members added to CWC • First unmanned Aerial Vehicle squadron of Indian Navy commissioned; **7.** Voting rights to be granted to overseas Indians; **8.** Delhi's coldest day in 70 years, temperature 0.2°C • AMU to appeal against Allahabad HC judgement scrapping its minority status • NCP leader Sharad Pawar rules out formation of a Third Front • Gyanpith Award goes to Marathi poet Vinda Karandikar • Kashmir's Dal Lake freezes; **9.** BJP alleges that telephones of its senior leaders including L.K. Advani were tapped during the Volcker controversy; **10.** Government says it will completely exit Maruti Udyog Ltd. • Maharashtra bans James Laine's book 'Epic of Shivaji' • UPA govt. is committed to completing NDA govt's Golden Quadrilateral project; **11.** Air India to buy 68 Boeing aircraft at a cost of Rs.35,000 cr. • Infosys Technologies employee headcount to reach 50,000 soon; **12.** SEBI unearths another IPO scam in IDFC, where a few investors opened over 14,000 demat accounts • Government sells 8 percent of its stake in MUL, earning Rs. 1567 cr. • Sania Mirza seeded No. 32 in Australian Open Singles • Airport modernisation by AAI is acceptable, say Left parties • NGOs want field trials of Bt Cotton banned • US senator John Kerry, in Delhi, wants fissile material cut-off included in the July 18, 2005 nuclear deal with USA • Domestic Mutual Funds equity assets reach Rs. 75,000 cr; **13.** 59 Indians are among the 362 Haj pilgrims killed in the Mina stampede • Fiat cars to be marketed through Tata dealerships • Forex reserves rise to \$ 139.352 billion; **14.** Arundhati Roy turns down the Sahitya Akademi award • Maharashtra governor S.M. Krishna signs the controversial ordinance seeking to regularise illegal buildings in Ulhasnagar • An imam with LeT links arrested in Mumbai • Animal Welfare Board gives the green signal to Aamir Khan's 'Rang De Basanti', as there is nothing objectionable regarding the treatment of animals in the movie; **15.** Singapore invites Indian institutes of repute to set up campuses there • BJP asks Prime Minister to ensure that the two bank accounts of Italian businessman Ottavio Quattrocchi, lying frozen for the past 30 months, remain frozen • Second snowfall in the month cuts off Kashmir valley; **16.** Pak-trained LeT militant Habeeb arrested in Almatti • SC issues notice to LS Speaker on expulsion of an MP in connection with "cash for question" scam • Supreme Court disallows entry of the controversial ship Clemenceau into India till Feb. 13; **17.** HRD Minister says IIMs cannot establish campuses abroad 'as of now' • A.K. Telgi of the fake stamp paper scandal and two associates sentenced to 10 years R.1; **18.** Crisis in Karnataka as there is a division in JD(S); H.D. Kumara-



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swamy to withdraw support to Congress; **19.** Jet Airways buys Air Sahara for \$ 500 m • Rubber hits a historic high of Rs.75 a kg; **20.** Inflation rate falls to 4.24 p.c. • Kerala High Court rules that marital status is no bar to study nursing • Delhi High Court stays the operation of a CBSE circular that made it mandatory for all affiliated schools to provide free education to every single girl child of a parent from class VI • Tamil Nadu Court lifts the ban on recruitment; **21.** 82nd plenary session of AICC begins in Hyderabad; **22.** Saudi Arabia repeals the court sentence to gouge out Keralite migrant worker P.V. Naushad's eye • In Karnataka, H.D. Dewe Gowda supports his son H.D. Kumaraswamy, dashing the chances of a Congress coalition; **24.** Government opens up the retail sector to FDI • SC holds that Governor Buta Singh misled the Centre in recommending the dissolution of the state assembly. It says that constitutional norms were 'perversely' subverted for helping a political party • First bus from Amritsar to Lahore leaves • Ganesh Bank of Kurundwad merges with Federal Bank • Seven banks are penalised by RBI in the IPO scam; **25.** The popular quiz show 'Kaun Banega Crorepati' to be stopped, owing to Amitabh Bachchan's poor health • President APJ says need of the hour is disciplined action by every citizen • NDA demands the resignation of Prime Minis-

ter and Governor Buta Singh; **26.** Republic Day Awards announced: Padmavibhushan to 9, Padmabhushan to 36 and Padmashri to 61. Adoor Gopalakrishnan, Mahashveta Devi, Nirmala Deshpande, Norman Borlaug among Padmavibhushan awardees. Sania Mirza is the youngest to get Padma Shri. • King Abdullah of Saudi Arabia is Chief guest at Republic Day Parade in Delhi • Bhuta Singh resigns as Bihar Governor • RBI allows banks to appoint NGOs, micro finance agencies, P.O.s and NBFCs to act as banks' Business Correspondents • Govt. is targeting an FDI inflow of \$10 b. during the next fiscal, says Commerce Minister • ISRO thinks mobile TV will arrive in three years; **27.** 8th World Spice Congress opens in Chennai • Trial run of Amritsar-Nankana Sahib bus • Gold is Rs. 750 per gram • L.N. Mittal launches a \$ 22.7 b. take over bid for Arcelor, world's second largest steel producer • Sensex crosses 9800 mark • Central Council of ICAI decides to prefix 'CA' to the name of a chartered accountant • Karnataka Chief Minister Dharam Singh resigns; **28.** Karnataka deadlock: Assembly adjourned without CM Dharam Singh seeking confidence vote as directed by Governor • H.D. Deve Gowda resigns as JD(S) president • 260 m. Indians (26 %) are still below poverty line, says the first Social Development Report; Orissa has the highest

number • Governor invites H.D. Kumaraswamy to form the Government in Karnataka; **29.** 14 people, including eight priests, injured in BSF firing on the premises of Kamakhya temple, Guwahati • 10th Grand Slam and third mixed doubles crown (with Martina Hingis) for Mahesh Bhupathi • S. Sreenath in team India again to play ODIs against Pakistan • Union Cabinet reshuffled and expanded with the entry of Sushil Kumar Shinde, A.R. Antulay, Murali Deora, Vayalar Ravi, Ambika Soni, etc. Ten Cabinet Ministers, one MOS with independent charge and 11 MOS sworn in • Chhattisgarh tableau adjudged the best in Republic Day parade • Nandan Nilekani of Infosys becomes a member of the World Economic Forum Foundation board; **30.** Rubber RSS 4 is Rs. 7850 for a quintal • Left parties demand US ambassador David Mulford's recall • New Delhi vote against Iran at IAEA meeting in Vienna, if it is called upon to make a choice; **31.** Airport modernisation programme taken off - Delhi airport is allotted to GMR group, and Mumbai to GVK group • President A.P.J. leaves on a 10-day tour to Singapore, the Philippines and S. Korea.

February

Sensex Crosses 10,000 Mark

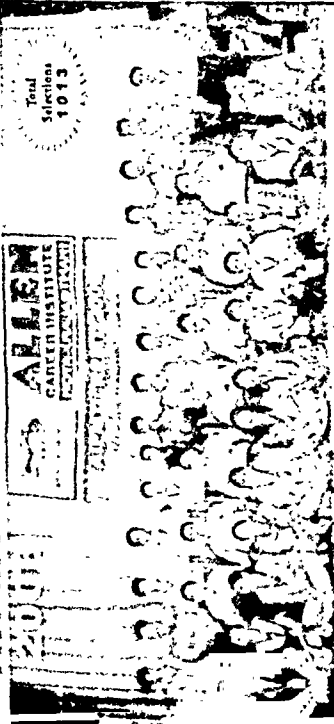
1. Sections of AAI employees strike work protesting at

The Ambassadors of our Success with Dignitaries of our Institute.

AIMS

AIPMT

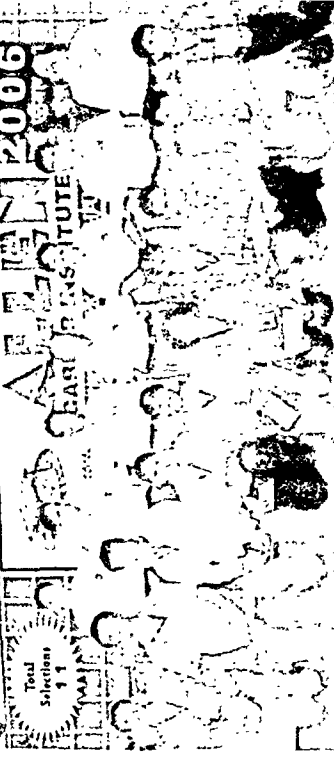
2006
ALLEN
CAREER INSTITUTE
PRACTICE CENTRE



Total
Selections
1013

ALLEN
CAREER INSTITUTE

Total
Selections
11



ACHIEVEMENTS OF THE YEAR 2006

INTERNATIONAL LEVEL

AIMS	11
AIPMT	1013 (in Mains) 27 in Top 100
BBU-PMT	20 3 in Top 10 (in General Category)

STATE LEVEL

RAJASTHAN PMT	1205 7 in Top 10 (General Boys Category) 9 in Top 10 (General Girls Category) 8 in Top 10 (OBC Boys Category) 6 in Top 10 (OBC Girls Category)
MR-PMT	117 8 in Top 10 (According to Marks in Unreserved Category)
CG-PMT	37 in Top 100 (in Unreserved Category) 202 (out of PMT Rank 600) 9 in Top 10

AUTHENTICITY OF RESULT : POWER OF ALLEN

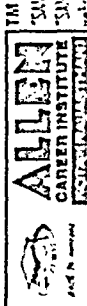
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port modernisation • Prime Minister says the economy is moving toward a sustainable growth rate of 8 to 10 p.c. • SC tells Centre and State governments it is their duty to put children between 6 and 14 in schools • Centre gives its nod to IIMs to go global; **3.** India achieves prevalence rate of less than 1 per 10,000 population, in eliminating leprosy, as on Dec. 31, 2005; **4.** The 4-day airport strike by over 20,000 employees called off • Job reservation move in private section gets weak as GoM says the radical measure is not possible within the framework of the Constitution; **5.** Trade unions to protest outside French embassy to stop entry of the decommissioned ship Clemenceau into Indian waters • Left parties demand a full debate of Iran nuclear issue • Supreme Court says a person working with a government department on contract basis is not a 'government servant' • Study finds that Goa has the highest incidence of breast cancer in India; **6.** Sensex crosses the 10,000 point mark, for the first time. Climbs by 238 points and closes at 9980.42 • Government 'redeploys' about 5000 troops in J&K to West Bengal due to an improvement in the situation • Pravasi centres to be opened in embassies to address problems of NRIs • **12** policemen die as Naxals raid a police station in two attacks in Chhattisgarh and Jharkhand •

The Ambani brothers clash over delay in completing demerger formalities • Kerala rated by World Travel and Tourism Council as one of the major tourism destinations in the world along with Greece and Mexico; **7.** Sensex closes above 10,000 points (10082.28) for the first time ever • Maharashtra to enforce a thickness-specific ban on plastic carry bags - minimum permissible thickness is 50 microns • Raj Babbar suspended from Samajwadi Party for 'levelling baseless charges' against General Secretary Amar Singh • IIT-Madras to offer M.A. Programme in humanities; **9.** Government to set up a mail regulatory and development authority (MRDA) • Curfew imposed in Leh after clashes between Muslims and Buddhists triggered by reports of alleged desecration of the Quran at a mosque in Kargil; **10.** Government to amend the Foreigners' Act • Eight CISF jawans killed in Naxalite attack in Chhattisgarh • E-passports likely by 2013 • Fast-track craft INS Bangaram joins naval fleet; **11.** Muslims hold countryside demonstrations denouncing the Prophet cartoons in a Danish newspaper and burn the Danish flag; **13.** Following Justice Rajinder Sachar Committee's seeking details from the Army on the number of Muslims in its employ, PMO explains that the information was being sought from all departments and agencies; **14.** Earth-

quake (5.7 magnitude) hits Sikkim, damaging roads and buildings including the Raj Bhavan and a monastery • Army submits data on the number of Muslims in its ranks to Defence Ministry but requests that the information be not given to the Rajinder Sachar Committee • Prime Minister says, in reply to Left attack on Iran policy, government's tactics and strategy will change with the ever-changing world's reality • Total number of phones in India reaches 130.8 m, with a teledensity of 11.7%; **15.** India's fastest train, Delhi Bhopal Shatabdi Express flagged off - the 198 km Delhi Agra stretch to be reduced by half an hour. • Maharashtra has the highest number of households without power - 38 lakh rural households in 744 village have no electricity; **16.** Dawood Ibrahim's nephew Samir Wagle arrested • IISCO merges with its parent body SAIL • 64 sitting West Bengal MLAs including eight ministers not to figure in upcoming Assembly election • SemIndia to set up Fab City in A.P. • China says it fully supports the New Delhi - Washington nuclear pact • French President opposes the \$ 23 b. L.N. Mittal bid to take over Arcelor • France to offer India the Rafale multirole fighter in place of Mirage-2000-5 fighter; **17.** Lok Sabha speaker asks MPs facing an inquiry into their conduct in the implementation of MPLAD scheme not to attend

Belgaum

Kota

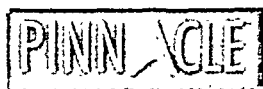


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• Jodhpur • Kota • Lucknow • Meerut • Nagpur • Nasik • Pune (2) • Raipur • Surat
• Udaipur • Ujjain • V V Nagar • Varanasi

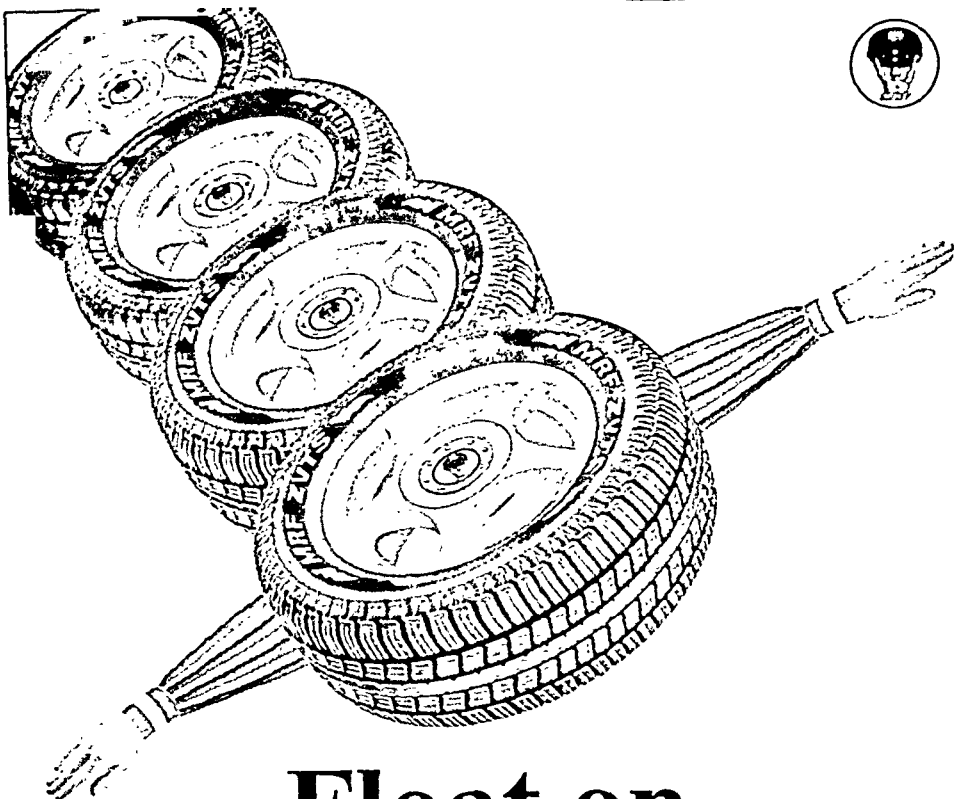


14 years • 1,20,000 students • 45 centres • 1 name

ised \$ 12 b. in 2005 from
 verseas market • Inflation
 comes down to 4.08 p.c. •
 ingarajan Committee recom-
 ends Rs. 75 hike per LPG cyl-
 der • Violence breaks out in
 yderabad during a protest
 against the pictorial depiction
 the Prophet ; 18. First cases
 bird flu detected in
 aharashtra's Nandurbar dist-
 ct-50,000 birds die, 8 people
 ospitalised with suspected
 rd flu • ED questions Natwar
 ngh, in the oil-for-food scam
 Demonstration in Lucknow
 against publication of carica-
 res of Prophet Muhammed
 H.D. Deve Gowda suspends
 chief minister Kumaraswamy
 and 39 other rebel MLAs from
 (S) following their tie-up with
 P to form a coalition govern-
 ment in Karnataka • Pakistan
 and India resume a train service
 cross the Thar desert, 40 years
 after it was suspended -Karachi
 Munabao; 19. • Lakshmi
 Mittal expresses confidence in
 winning the acquisition of
 Arcelor, despite opposition
 from European governments
 P.A. Sangma (NCP) wins Tura
 Lok Sabha seat in Meghalaya
 for the ninth time, in by- poll
 Lsocham thinks trade with
 France will touch 10 b. euros
 by 2010, as a result of Chirac
 visit • Indians bought 4.3 m.
 personal computers in 2005
 15 injured in an explosion at
 Ahmedabad railway station;
 1. Fatwa against the Danish
 cartoonist issued by a Shariat

the 8.5 lakh chickens in
 Navapur farms destroyed, re-
 strictions on import of poultry
 imposed in various states
 • Neighbouring countries shut
 their borders to poultry from
 India • MPs demand recall of US
 ambassador David Mulford • A
 five-acre prime land in
 Hyderabad fetches a record
 price of Rs.335. 25 cr. • Chris-
 tian Dior, French fashion com-
 pany, opens its first outlet in
 India; 21. Sensex touches all-
 time high of 10168.11 • Union
 Minister Pawar says the bird flu
 is confined to a small
 area • Culling of birds continues
 in Maharashtra and Gujarat
 • Government asserts that
 armed forces recruitment is
 based on merit and open to all
 citizens • PDP chief Mehbooba
 Mufti calls for declaring J&K a
 'free trade zone' • President
 Kalam wants more Indian com-
 panies to storm into the For-
 tune 500 list in a big way • Lok
 Sabha celebrates International
 Mother Language Day • Poul-
 try industry's loss in Navapur
 district put at Rs. 20 cr. National
 loss put at Rs. 200 cr. per day;
 22. Sensex pierces the 10,200
 -mark • French nuclear energy
 giant Areva is reportedly keen
 to enter Indian market • Bird flu
 is ruled out in Chilika lake where
 1700 migratory birds are found
 dead • India might go in for
 three more Russian stealth
 ships; 23. ISD calls to be 23 p.c.
 cheaper from March 1 • Three
 sailors killed in blast in warship

Prasad Yadav presents railway
 budget: no rise in freight rates
 or passenger fares, charges on
 e-tickets reduced, 55 pairs of
 new trains introduced, AC fares
 reduced • Nine people given
 life term in Best Bakery case,
 eight freed • Supreme Court
 asks Chief Minister Jayalalithaa
 to set an example by present-
 ing herself in court in the in-
 come tax case pending against
 her in Chennai • Harrods of Lon-
 don to buy 120 tonnes of In-
 dian tea this year • Bihar gov-
 ernment announces a judicial
 enquiry into the 1989
 Bhagalpur riot case • Electronic
 registration of companies to be-
 gin on March 6; 26. Car bomb
 blast on the outskirts of Srinagar
 injures eight • RSS abolishes the
 post of party spokesman • Four
 national medicinal plant pro-
 cessing zones planned • Delhi's
 Maurya Sheraton Hotel where
 George Bush and party will stay
 declared a high security zone •
 Culling operation completed in
 Surat district • Government has
 a scheme to provide free power
 connection to families below
 the poverty line • 80 p.c. of
 rural Bengal yet to be electri-
 fied, says Power Minister
 Shinde • RSS demands imme-
 diate scrapping of the Rajender
 Sachar committee on status of
 Muslims; 27. Actor Aamir Khan
 seeks Rs. 21 cr. compensation
 from Filmfare for using his pho-
 tograph and a quote without
 his permission • Economic Sur-
 vey 2005-06 projects 8.1%



Float on MRF ZVTS

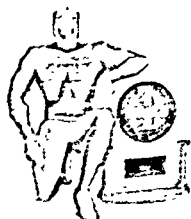
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MRF tops the
J.D. Power Asia Pacific Study
for the 4th time.



to Ashim • Chicken and are back on the Railway, but not half-boiled eggs, eggs, omelette and chickens • The CD con- ing alleged conversation cripts of Amar Singh is be- examined by Home Minis- MPs demand retrial of Jes- al murder case; 28. P. imbaram presents 2006- idget • Mulayam Singh / wins U.P. trust vote.

March

George Bush in India

President George Bush in New Delhi for a three- sit • Sensex shoots up 195 s to reach 10565 • RBI to more banks to Import • Vizag port crosses the million tonne mark again year • Election Commis- r announces the schedule fections to West Bengal, Nadu, Kerala, Assam and lcherry, from April 3 to 8 • Abu Salem has allegedly ssed to having delivered • AK 56 guns, handg- les and ammunition to Sanjay Dutt • The invest- n of SNC Lavlin case to be ed over to CBI • ICICI Bank s Russian market • Ruckus rliament over the naxal c on civilians in Chhattis- • Deve Gowda leads anti- protest in Bangalore • Rally hly by Muslims against Bush 2. Sensex soars to 10,700 ne Minister Manmohan and US President George

on civil nuclear cooperation • Supreme Court holds that State governments could not levy sales tax on services provide by telecom companies to consum- ers • Top CEOs from India and USA moot the creation of a \$5 b. fund to boost infrastructure development • Rajya Sabha passes a Bill to amend the Mi- nority Education Act for giving more teeth to the Commission set up under the Act • USA likely to lift the ban on Indian man- goes • Left rally in New Delhi against Bush visit; 3. George Bush seeks lifting of FDI caps, transparency and greater mar- ket access for US goods. Before leaving India he says that the two countries are closer than ever before • Maharashtra gov- ernment to take stringent ac- tion against striking doctors • U.C. Banerjee Committee holds that the fire in Sabarmati Ex- press at Godhra on Feb. 27, 2002 was accidental • Govern- ment says bird flu is totally under control in Maharashtra • Ratan Tata says Tata Power is interested in building a nuclear plant • President Bush visits N.G. Ranga Agricultural University in Hyderabad, and addresses an invited audience at the Purana Qila in Delhi • Human Resource Development Ministry to grant IIT status to CUSAT • US Consu- late to be opened in Hyderabad in Oct. 2005 • Three persons killed in riots over Bush visit in Lucknow • IT companies get a reassurance from George Bush

against outsourcing of jobs • Rajya Sabha passes the Con- tempt of Courts (Amendment) Bill • Vaiko's MDMK joins Jayalalithaa camp in Tamil Nadu; 4. Uttaranchal Chief Minister N.D. Tiwari submits resignation • 760 striking doc- tors in Maharashtra are issued termination notices • Mob-po- lice clashes following rioting in South Goa over the demolition of a structure used by a minor- ity community for prayers • The longest (22.20 km) cave system in the Indian subconti- nent discovered in Meghalaya's Jaintia Hills district by an inter- national team of speleologists; 5. United Democratic Alliance of seven parties led by Con- gress launched in Kolkata • Maharashtra doctors' strike en- ters 7th day • About 100 fami- lies of the minority community evacuated from Curchorem- Sanvordem in Goa, where ve- hicles, shops and petrol pumps were damaged in two-day riots • Swaraj Paul to become the first Chancellor of the Univer- sity of Westminster, London • PAN becomes mandatory for demat accounts with SEBI; 6. Prime Minister says India is not for change in Iran regime • India and Australia agree that the possible supply of uranium to New Delhi will be discussed by a group of officials • Monsanto agrees to cut the price of its GM Bt cotton seed by Rs.300 per packet of 450 grams • Jaya Bachchan's mem-



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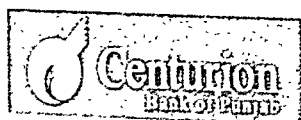
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• **12.** PWC study forecasts 19% growth in India's entertainment and media industry by 2010 • **Central Sales Tax** to be phased out by on large premium payments • **TRAI** recommends implementation of number portability in mobile telephony by Apr. 2007 • **Raj Thackeray's** new party Maharashtra Navnirman Sena launched • **Uttar Pradesh Assembly** passes a Bill to exempt heads of corporations, boards, and councils from being categorised as 'offices of profit' • **India signs MoU** for gas pipeline passing through Mizoram, and skipping Bangladesh • **Kerala's Land Revenue Commissioner K.J. Alphons Kannanthanam** resigns from IAS to contest for a seat in the Assembly; **10.** Sensex at all-time high of 10,765 points • **Forex reserves** rise to \$143.148 b. • **27** Indians, led by **Lakshmi Mittal** (5th place in the rich men's club) in the list of **Forbes** billionaires • **Notice** issued by Election Commission to **Amar Singh, Samajwadi Party** general secretary, on a complaint • **Sabir Bhatia** to relaunch his travel portal **Arzoo.com** • **Zahir Sheikh** of **Best Bakery** case surrenders in Mumbai; **11.** **Anil Kumble** takes his 500th Test cricket at Mohali - the first Indian to do so • **India and China** discuss border issue in New Delhi • **President Kalam** in Mauritius • **G-6** meeting in London, with USA, EU, Brazil, Japan, Australia and India participating; **12.** **PWC** study forecasts 19% growth in India's entertainment and media industry by 2010 • **Central Sales Tax** to be phased out by

• **13.** India to help Mauritius' sugar and textile sectors • **Sensex** touches new intra-day high of 10884 • **The 7th** round of talks between India and China on the boundary dispute conclude at Kumarakom • **India** issues new rules on export of nuclear equipment and technology • **Hyundai Motor India** rolls out its one millionth car, plans to make 6 lakh cars by 2007 • **Courier** industry asks government to reconsider Post Office Bill • **L.K. Advani's** proposed national integration yatra to commence on April 6 from Gujarat and **Raj Nath Singh's** yatra from Orissa • **BSNL** and **MTNL** propose to invest Rs. 20,000 cr. to install an additional 60 m. lines in the next three or four years; **14.** Prime Minister says it is in our national interest to engage with USA, but it does not mean India is surrendering its national interest • **Avian flu** cases detected in Maharashtra's Jalgaon district • **Russia** will supply uranium fuel for the Tarapur reactor • **Kerala** to press for having the Mulleperiyar dam rebuilt by Tamil Nadu to ensure safety of people living in the downstream areas • **Lok Sabha** members named in the **MPLADS** scam not to be expelled; Committee recommends only reprimand and suspension till Mar. 22; **15.** India beats China in textile exports • In reply to US objection to Russia's decision to supply

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Tarapur, India says if the US laws are amended that country can also supply LEU to India; **16.** 20,000 birds culled in Jalgaon • Russian Prime Minister Mikhail Fradkov arrives on a two-day visit • NDA asks President to remove Election Commissioner Navin Chawla for his alleged links with the Congress • Kunjurani Devi wins a gold at the Commonwealth Games, Melbourne; **17.** Sensex touches 10,951 and closes at 10,860 • Jaya Bachchan disqualified from the membership of the Rajya Sabha • Violence between residents of Ghansoli village in Mumbai results in three deaths • Best tourism state award given to Kerala; **18.** Prime Minister calls for full convertibility of the rupee • Visit of Denmark Prime Minister Rasmussen to India cancelled after New Delhi says this was 'not the optimal time' for the tour • Two IAF pilots die as Suryakiran jet crashes in Bihar • Lok Sabha members make a strong plea for taxing rich farmers and raising corporate tax; **19.** Government says there has been no human bird flu cases so far • Partnership between Anna Varsity and Microsoft announced • Madan Lal Khurana, former Delhi chief minister, suspended from BJP; **20.** V. Kurien, known as India's Milkman, resigns as chairman of GCMMF (Amul) • Amul launches sports drink 'Stamina' • TRAI proposes Rs. 5 cr. as convergence fee, in place of Rs. 107 cr. suggested

tee for the girl child; **21.** Sensex touches the 11,000 mark • India and Bangladesh agree to join hands to deal with terrorism • Supreme Court rules that non-consummation itself would mean cruelty to a woman and would be ground for divorce • Samajwadi Party member Swami Sakshi Maharaj expelled by Rajya Sabha, after his featuring in a sting operation by a TV channel on MPLADS • Uma Bharti to announce a new party by Apr. 30 • A Division Bench of Kerala High Court upholds the judgement that nuns, priests and sanyasins could be enrolled as lawyers provided they don't engage in any full time profession like teaching or nursing • BJP suspends 80 Uma Bharti loyalists • A.P. to develop a 'Golden Corridor' with the Westward Trunk Line covering five districts • Centre to give a bonus to wheat farmers in addition to the minimum support price • Former BCCI president Jagmohan Dalmiya is granted interim protection from arrest, by Bombay High Court, in a case of alleged misappropriation of Rs. 26 lakh for transactions during '96 World Cup; **22.** Government expects exports to touch \$110b. in 2005-06 • Delhi High Court issues bailable warrants against the nine persons acquitted in Jessica Lal murder case • AAI to strengthen airports infrastructure at Madurai, Coimbatore and Tiruchirappalli • ICICI Bank

Indian Bank • Uproar in Parliament over ordinance the Government is preparing to promulgate to take some posts out of the purview of the 'office of profit' • Government to implement stringent regulation to curb illegal recruitment in the Gulf and other measures to stop ill-treatment of Indians • Sania Mirza wins WTA's Newcombe of the Year award • Amitabh Bachchan is back for film shooting, first time after his abdominal surgery • Budget session of Parliament ends abruptly; **23.** Sonia Gandhi resigns from the Lok Sabha and as chairperson of National Advisory Council but says she will contest from Rae Bareilly again; BJP President says Mrs. Gandhi is 'running away' from the changes levelled against her; CPM wants new legislation to put certain offices held by MPs outside the purview of offices of profit • Liberhan Ayodhya Commission's term extended to June 30; **24.** CEC says President has forwarded to him complaints against 16 MPs including Sonia Gandhi and Somnath Chatterjee, seeking for their disqualification for holding an office of profit • Supreme Court rules that the breakaway BSP MLAs will continue as a separate group in the Assembly • Prime Minister flags off the first Amritsar Nankana Sahib bus since 1947 linking two holiest Sikh shrines • Maoists storm a subjail in Khandagiri in Orissa and free 4

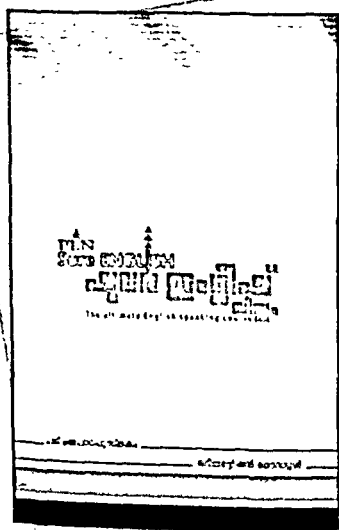
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h across the country pour
New Delhi to express sup-
to Sonia Gandhi • Amid
os, the Jharkhand Assembly
es the Disqualification Bill
versing its earlier decision,
Politburo lets Kerala leader
Achutanandan to contest
s; 25. Medha Patkar urges
the Minister to reconsider de-
on raising the height of
mada dam • 13 villagers in
hattisgarh killed by Naxals
il Ambani resigns from Rajya
ha • Prince Charles and wife
milla arrive on six-day visit
har appoints yoga guru
mi Ramdev as its brand am-
sador ; 26. Prince Charles
d wife Camilla arrive on six-
y visit; 27. Sensex closes at
0,079; Market capitalisation is
Rs. 29.5 trillion • Planning
commission asks RITES to study
e four major mechanised
odes of transport for it • India
d GCC countries decide to
celerate finalisation of free
ade area agreement
agmohan Dalmiya, former
CCI chief, questioned by
umbai police's Economic Of-
nces Wing in the case of mis-
appropriation of funds • First
arge Taxpayer Unit to be op-
ational from July 1 • Infosys
echnologies to set up its larg-
t campus yet spread over
50 acres at Mamidipally,
yderabad • India's Gagan
arang wins gold in 10 m. air-
le event at ISSF World Cup
hooting Championship at
uangzhou, China and be-

for the Beijing Olympics
• Satyam Computer Services
stop conducting HIV tests on
potential employees ; 28. An
Indian Trade Centre to be es-
tablished in UAE • All new en-
trants into Indian armed forces
to undergo compulsory HIV
test • Sonia Gandhi in Rae Bareilly,
attacks opposition for finding
fault with her • Public Health
Foundation of India launched
by Prime Minister ; 29. Partial
solar eclipse • 7000 chickens
culled in Madhya Pradesh • Low
enriched uranium from Russia
to fuel the first two reactors at
TAPS (Tarapur) • In Islamabad,
India and Pakistan agree on
economic and commercial co-
operation • Padma Awards to
53 recipients given by Presi-
dent in the second part of in-
vestiture ceremony ; 30.
Rajinikanth's *Chandramukhi* sold
for dubbing in German and
Turkish languages • BITS-Pilani
to set up a Rs.160 cr. campus in
Hyderabad • Senior citizens can
now transfer accounts under
SCSS 2004 from one deposit
office to another • Sensex crosses
11,300 • Four doctors of AIIMS,
New Delhi arrested in connec-
tion with the alleged malprac-
tice in the PG Medical Entrance
Exam • UN's Escap says India
will grow by 8 p.c. upto 2008,
but oil prices remain a concern
• Raymond poised to become
the world's largest worsted
suing producer, following its
new facility (Vapi)'s inaugura-
tion • Govt. doubles the finan-

ence minister's Foreign Sec-
etary Shyam Saran in USA for
talks on US-India nuclear deal
• Ranbaxy, India's top drug
maker, unveils its fourth Euro-
pean acquisition in nine days
with the purchase of Belgian
generic drug company Ethimed
NV; 31. Forex reserves touch \$
148.662 b • Current account
deficit narrows to \$3.8 b • Fi-
nance Ministry says STPI units
are eligible for IT sops • Birman
Bose to succeed Anil Biswas as
West Bengal CPM Secretary
• ONGC is at the top of 33
Indian companies which found
a place on Forbes' list of top
2000 corporate titans in the
world • India's external debt
stood at \$119.2 b. in Dec.'05.

April

Film Icon Rajinikanth Dead

1. Prime Minister rules out any
possibility of a mid-term poll
• Five BJP-ruled states - Chhat-
tisgarh, Gujarat, Jharkhand,
M.P. and Rajasthan - switch
over to VAT • Gurbachan Jagat
is the new UPSC Chairman • IIM-
Ahmedabad raises its annual
fee for the PG programme from
Rs. 1.58 lakh to 1.77 lakh •
Arundhati Roy joins Medha
Patkar in sympathy; the latter
on the fifth day of her fast at
Jantar Mantar; 3. A 284-point
rise in Sensex takes market to a
high of 11,564, the highest ever
• According to consulting firm
KPMG, India needs \$ 10 b.
private investment in energy
sector • Andhra chief minister



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says a separate Telengana state is unlikely • Infosys top official says Hyderabad has the best infrastructure for IT in India today; 4. Jagmohan Dalmiya is interrogated by Economic Offences Wing of Mumbai police • Sensex reaches 11,710 • IIM-K hikes fee by 20-22% • India accounts for over 25 p.c. of maternal deaths worldwide, and Rajasthan has the highest rates (67 per lakh live births) • Singapore is considering developing a SEZ in India; 5. Medha Patkar, on the 8th day of her fast, is arrested and moved to the hospital in Delhi • Centre declines to concede to the demands of striking SBI employees • Abdul Latheef Naushad, freed from prison in Saudi Arabia where the Sharia Court had ordered that his eye be gouged out for injuring a Saudi, returns to home in Kerala • Vijay Nambiar joins Kofi Annan's team of top advisers • Government proposes a cess on air travel so that the funds can be used for developing smaller airports • A student of Hyderabad's Indian School of Business is offered a salary of Rs. 1.04 cr. by an Indian IT company for an international position • Gagan Narang tops the world rankings in men's 10 m. air rifle category • RBI asks banks to help poultry units hit by bird flu • WTO D-G Pascal Lamy in India; 6. L. K. Advani launches his Ram Rath Yatra at Rajkot • BJP President Rajnath Singh begins his 5-week Bharat Suraksha Yatra • Com-

munal clash kills 5 in Aligarh; 7. Foreign Trade Policy Annual Supplement released, with \$120 b. as export target and sectorspecific initiatives to make India a hub for gems and jewellery exports and a major refuelling stop for international flights • Sensex dives 365 points intraday, reportedly due to a 'rumour' • Forex reserves reach \$151.62b. • Finance Minister says rupee convertibility is unlikely before 2009 • Rajasthan passes a Bill prohibiting religious conversion 'by use of force, allurements or fraudulent means' • About 70 people die as a bus falls into the Chenab river in Doda, J&K • NCW calls for more stringent implementation of law against sex determination tests; 8. Two lakh more chickens to be culled in Maharashtra • Aligarh continues to remain under curfew for the third day after the killing of six people • Kashmir's first women's magazine 'She' launched • Sonia Gandhi quits chairmanship of Rajiv Gandhi Foundation, Indira Gandhi Memorial Trust and Jawahar Bhawan Trust; 9. Interpol brands Dawood Ibrahim as dangerous as Osama Bin Laden. He has 11 passports, including eight from India • UGC to fill up 120,000 vacant posts in universities soon, of which 50,000 are teaching posts • The 7-day SBI strike called off - fresh cut-off of basic for determining pension increased from Rs.8500 to Rs. 21,040 • Indira Vikas Patras are like cur-

rency notes, so can't be replaced if lost, rules Supreme Court; 10. Actor Salman Khan sentenced to a five year jail term after a Jodhpur court held him guilty of killing a rare bull • India's oil import bill hits record high of \$43.8 b. in 2005-06 • About 50 people die in a fire in trade fair in Meerut • Criminal proceedings initiated against M.F. Husain in a Rajkot court stayed by Supreme Court • Supreme Court declines to modify sentence for Zahira Sheikh in Best Bakery case • Centre to introduce a package for preventing farmers' suicides in A.P., Maharashtra, Karnataka and Kerala; 11. Sharad Yadav is elected national President of Janata Dal (United) defeating George Fernandes • Supreme Court directs demolition of all fish tanks in Killeru lake area of A.P.; 12. Phalke Award winner Kannada film icon Rajkumar, 78, is dead • Sensex plunges 307 points • Bombay High Court lifts ban on dance bars • Orissa IPS officer's son Bitu Hotra Mohanty gets 7-year R for raping a German scholar • Government to review the decision to raise the height of Narmada dam; 13. Department of post to invest Rs.10,000 cr. in stock market • Inflation 3.51 p.c. • Six killed, as violent rocks Bangalore - unruly mob attack buses and shops, following news of death of film icon Rajkumar; 14. Grenade attack in a series of blasts kill five and injure 40 in Srinagar, twin bl-



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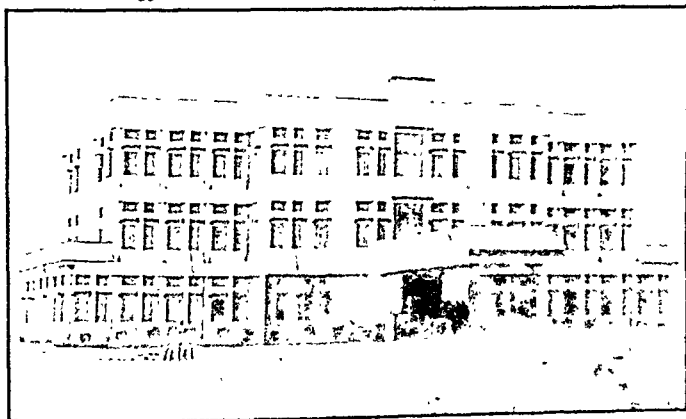
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votes, i.e. 94 per cent; **28.** Government considering allowing wheat import by private sector • Supreme Court says sales tax can't be imposed on lotteries as they don't come within the definition of goods • Telecom engineer K. Suryanarayana kidnapped by Talibans in Kandahar; **29.** Naxals kill 13 abducted villagers in Chhattisgarh • Taliban threatens to execute Suryanarayana if New Delhi does not pull out Indians in Afghanistan • Pramod Mahajan undergoes a surgery to wash the abdominal cavity • SBI raises interest rates for home loans by 0.25-0.50 per cent; **30.** Uma Bharti launches her new party 'Bhartiya Janasakti'.

May

Karunanidhi is Tamil Nadu CM

1. 35 persons killed in two separate strikes by terrorists in J & K's Udhampur and Doda districts • Four killed in communal violence in Vadodara • IAF phases out MiG-25 aircraft • Pramod Mahajan develops acute respiratory problem • Engineer Suryanarayana held by Taliban killed, even before MEA team reached Kabul; **2.** Andhra Pradesh High Court stays SEBI order on Karvy Group, letting it continue normal market activities • India's LNG deal with Iran hits an impasse, as Iran wants changes in the contract • Bus falls from Thane bridge, killing 31 • Child prodigy

Buddhia Singh, 5, of Orissa covers 65 km in 7.02 hours; **3.** Third and final round of polling in Kerala and fourth phase in West Bengal • Army deployed in Vadodara, peace returns • **10** killed in J & K, six are militants • ADB to double its financial assistance to India to \$ 2.6 b. by 2008, from present level of \$1.3 b • Karnataka's IT exports, Rs. 40,081 cr. now, expected to hit Rs. 50,000 cr. in the current financial year • **39th** annual meeting of ADB Governors opens at Hyderabad • Second round of talks by Prime Minister with Hurriyat leaders, in New Delhi • Supreme Court asks governments to take steps to achieve total prohibition of liquor; **4.** CBI conducts raids at 24 places against former Haryana Chief Minister O. P. Chautala, for amassing property worth over Rs. 1400 cr.; **5.** Hyundai Motor India has plans to make a 1.2 litre diesel compact car • Gold prices cross Rs. 10,000 per 10 gm mark • Supreme Court rules there won't be quota for all-India seats in PG medical admissions • Assocham says mutual fund industry, now worth Rs. 2 lakh cr. would be worth Rs. 4 lakh cr. by 2010 • Music composer Naushad Ali passes away; **6.** Dabhol power plant to step up production to 640 MW by May 15, from the current level of 300 MW; **7.** India works out a route bypassing Bangladesh for importing gas from Myanmar • Blistering heat wave in North

India, with mercury cross 45°C in Delhi • APJ Abdul Kalam is voted the biggest icon in Tamil Nadu in a CNN-I online poll; **8.** Election in Tamil Nadu, West Bengal and Pondicherry • SEBI allows listed companies to raise money by privately placing securities via QIBs • Heat forces closure of Delhi schools • Medical report on child runner Buddhia Singh says long distance running is not good for him; **9.** ISRO and NASA sign a MoU for placing two US scientific instruments on board ISRO's lunar Chandrayaan-1 • Mona Prasad tops in civil services examination • Police register an FIR against Union Health Minister Dr. Ambumani Ramadoss • Dr. S. Ramadoss for alleged instigating the murder of an AIADMK man who recently was freed from DMK; **10.** Petroleum Ministry recommends a hike of Rs. 5 for petrol, diesel and kerosene and Rs. 50 for LPG; Left rejects the proposal • Maharashtra expects record sugar output of 69 lakh tonnes in '06 - '07 crushing season • Cauvery Tribunal drops its order to appoint an expert committee on crop pattern and water requirements • Delhi High Court bans interview of children or parents for nursery admission • IITs to recruit teachers from EU countries • Ocean liner 'SS Norway' reported heading towards Gujarat coast with suspected load of toxic substances;



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Sonia Gandhi wins Rae Bareilly Lok Sabha bypoll by a margin of 417,888 votes • Planning Commission recommends 15 more IITs; **12.** Pilotless target aircraft Lakshya testfired • Central Bank of India's business crosses Rs. 1 lakh crore • Industrial growth dips to 8 p.c. in '05-'06 as against 8.4 in '04-'05 • Infosys Technologies to hire 30 interns from 17 European technology and business schools; **13.** M. Karunanidhi assumes office as Tamil Nadu Chief Minister, the fifth time, Congress lends outside support to the DMK Ministry; **14.** Protests against OBC quota get stronger; demonstrations in Bangalore and Orissa; Delhi medicos begin hunger strike • Tarun Gogoi sworn in Chief Minister of Assam for another term • Srinagar-Leh road thrown open for the next six months; **15.** Another Black Monday for the stock market, with a crash of 463 points in sensex, as metal prices fall, FIIs pull out funds from India, and market across the world suffer losses • Private doctors join the IMA-called nationwide strike, medical services crippled • Passports of defiant H.K. Dogra, the former High Commissioner to New Zealand, and his wife revoked; **16.** Ban on non-iodised salt for human consumption comes into effect • Supreme Court says commercial banks can cancel bad debts with RBI approval, and writing off NPAs doesn't mean mismanagement

• **Best Bakery case:** Zaheera's mother Sehrunissa gets three months • Ph.D, M. Phil. holders exempt from NET qualifications • Naxals kill 12 members of a marriage party in Gadchiroli in Maharashtra • Office of Profit Bill passed by Lok Sabha • Tamil Nadu Government says all qualified Hindus can become priests (archakas) in Hindu temples; **17.** Babulal Marandi, MP from Jharkhand, resigns from BJP • Committee to study the quota issue in professional colleges • Mukherjee Commission reports that Netaji Bose didn't die in a plane crash; Government disagrees • Information & Broadcasting Minister watches the film *The Da Vinci Code*; decision on release in India awaited • Recovery in global metal prices takes sensex up by 344 points; **18.** Government allows the screening of *The Da Vinci Code* with Adults Only certification and a disclaimer saying it was a work of fiction • Infosys to develop a training facility at Mysore to train around 9000 personnel at one place • Panicky sales on Indian stock market lead to Rs.225,000 cr. meltdown; Finance Minister blames it on faulty reporting on FIIs • Tata's Rs. 1 lakh car plant launched in West Bengal • ADAG bags Mumbai metro rail project; **19.** Reservation supporters in Parna clash with police • Pope asks India to allow conversion • Tax on interest on senior citizen postal savings scheme to be de-

ducted at source; **20.** FM rules out re-introduction of Capital Gains Tax on equity transaction • **32** killed as truck plunges into a ravine near Rajapur in Ratnagiri district • BJP and RSS take strong exception to Pope's comments on alleged religious intolerance in India; **21.** Militants carry out a suicide attack on a Youth Congress rally in Srinagar, killing 7 • Striking doctors told to vacate hostels • Tarapur N-power station's third unit goes critical; **22.** India witnesses the biggest crash in stock market - sensex falls by 1111.70 points, then recovers by 654, and closes with a loss of 457 points. FM assures that there is no liquidity crisis • Hurriyat not to attend the round table conference • Two members - Andre Beteille and P.B.Mehta resign from National Knowledge Commission in protest against Centre's reservation policy • Doctor's strike continues, as talks fail • Supreme Court seeks view of CEC on the demand of BJP-led opposition MPs for the ouster of Naveen Chawla from EC • CAG reports says Delhi's Metro is suffering losses annually • Government says TAP gas pipeline project not a substitute for IPI project and can only be an addition • **23.** MTNL drops tariff - Delhi Mumbai call to cost only 4 p.per minute • Budget session of Parliament ends; **24.** Sensex sheds 250 points • Second round table on J&K opens in Srinagar • Government to raise

the number of seats in all educational institutions receiving Central aid by 54% • Postal Dept. is considering investment of Rs. 225 cr. in stock market • Subir Raha's term as ONGC chairman ends • Jaya Bachchan resigns as chairperson by GEAC; **26.** • Pondicherry's official name changed to Puducherry • Detailed survey of Sir Creek to begin in November • South-West monsoon reaches Kerala; **27.** Saina Nehwal becomes the first Indian woman to reach the final in a four-star event, when she reaches the badminton final of the Philippines Open • Centre orders increase in seats in medical institutions • In Bangalore, child marathoner Budhia Singh is stopped by police from undertaking a marathon race; **28.** Bob Houghton appointed chief coach of Indian football team; **29.** India and China sign the first-ever MoU on military ties • A 13-member Oversight Committee under Veerappa Moily set up to monitor implementation of OBC reservation • Ailing Kerala MLA Mathai Chacko sworn in at a private hospital in Kerala by Speaker • Rupee loses 23 paise to end at 46.09; **30.** Arundhati Roy nominated for Spanish Prince of Asturias Prize for 2006; **31.** As FII's continue selling spree, Sensex drops 388 points • Infosys Technologies to increase professionals in China to 5500 in five years, to have SEZs in Mysore and Thiru-

vananthapuram, and additional facilities in Mangalore, Pune, Chandigarh • GDP growth in 2005-06 is 8.4 pc; Recovery in agriculture remarkable • Doctors call off their 19-day-old strike • Screening of 'Da Vinci Code' suspended in Tamil Nadu • BrahMos test-fired successfully for the 12th time.

June

Shashi Tharoor is India's UNSG Candidate

1. Terror strike at RS headquarters in Nagpur foiled; three terrorists (suspected LeT) shot dead; • NSSO survey puts national average of disabled persons at 105 per 100,000, with Kerala (272) topping the states in mental illness • A Krishna temple to come up in Moscow • Wullar lake tragedy toll is 21 children and one teacher • Jaya Bachchan again files her nomination papers for the Rajya Sabha • A.P. and Meghalaya ban screening of 'The Da Vinci Code'; **2.** US slaps sanction on Dawood Ibrahim • Amitabh Bachchan and wife Jaya are worth Rs. 227 cr. • New four-page I-T returns form asks for income and expenditure of assessee and his bank and cash balances; **4.** The air-version of BrahMos missile to be ready in the next few years; **5.** V. Kurien resigns as chairman of IRMA • Petrol price is up by Rs. 4, and diesel by Rs. 2 • Goa bans 'The Da Vinci Code' • N. Gopalaswami to succeed B.B.

Tandon as CEC; **6.** IBM to triple its investment in India over three years to \$6 b • Banks in Kerala to consider writing off agricultural loans of upto Rs. 1 lakh taken by farmers who committed suicide • Work on 8-lane ring road encircling Hyderabad and Secunderabad begins • India is the top newspaper 'power', with 78.7 m. copies sold daily • Manipur Assembly passes again the Office of Profit Bill in its original form after Governor returned it a week before • Emigration clearance not required for those with a basic qualification of matriculation, government clarifies; Number of countries requiring EC brought down to 17 from 138; **7.** Central team in Kerala to study suicides by farmers; **8.** APJ Abdul Kalam makes a sortie in a supersonic fighter jet, Su-30MKI - the first President to do so; **10.** National heritage status given to Dandi Yatra route • Women's fashion magazine 'Marie Claire' comes to India; **11.** Army is ready to adopt marathon kid Budhia Singh • Heavy snowfall suspends Amamath Yatra • Public telephones and FM radio to be installed in Mumbai buses • Prithvi missile test-fired • Militants blow up railway tracks in Sivasagar district • Centre approaches ICAO for clearance to a second airport at Navi Mumbai • NSG empowered to commandeer any available aircraft for launching 'hot pursuit' of hijackers; **12.** Government

has plans to introduce e-passports by 2013 • An ASSOCHAM study says manufacturing segments will create 25 m. new jobs in India • IT department asks Jaya Bachchan to file returns for 12 years; **13.** Bid on minister M.K. Stalin's life in Madurai foiled • Security beefed up as intelligence reports put Taj Mahal on the hit-list of terror groups; **14.** Floods kill 8 in Assam • 3-day talks between India and US end on a positive note • Planning Commission sets 8.5 percent growth target for 11th Five Year Plan • Union Health Minister asks celebrities not to promote cold drinks and fast food • Government clarifies that the Senior Citizen Savings Scheme is taxable • Sensex closes below 9000 • Indian population to touch 1.4 b. by 2026 • Commerce Minister moots a new department for plantation; **15.** Shashi Tharoor nominated for UN Secretary General's post • Sensex records the highest single-session gain of 616 points • R.S.Gavai appointed Bihar Governor • Over 4.5 lakh people in 748 villages affected by Assam floods • Industrialist Rahul Bajaj elected to Rajya Sabha; **16.** Non-oil trade between India and UAE could cross \$25 b. by 2010, says FICCI chief • The Rs.7986 cr. Hyderabad Metro to get Central funding • Centre raises mid-day meal aid to States from Re.1 to Rs.1.50 a child • 9.2 km stretch of Bangalore-Mysore Infrastructure Corridor Project in-

augurated; **17.** All foreign luxury cars and SUVs imported under EPCG scheme to sport a yellow number plate • A former Intelligence official J.K. Sinha says India can produce 50 nuclear warheads a year; **18.** 24 passengers killed as bus falls into a gorge from Jammu Srinagar NH1A • The 3rd unit of TAPP to be ready six months ahead of schedule; it will increase nuclear power generation by one-sixth • The aircraft carrier Gorshkov to be delivered to Indian Navy in autumn 2008; **19.** Shashi Tharoor meets Prime Minister Manmohan Singh; **20.** Two former J&K ministers- G.A. Mir and R. Mattoo - arrested in connection with the sex racket case • India and China to meet on June 26 & 27 to arrive at a 'package settlement' of the boundary question • Seven villages in Dantewada, Chhattisgarh killed by Naxalites • Fresh probe into Kanishka bombing of 1985 by judicial commission begins; **21.** 16 States join the Centre's New Pension Scheme • Reliance Industries to invest Rs.4000 cr.in West Bengal • Lightning kills 69 people across Maharashtra in the past few days; **22.** Government clears the sale of 10% equity stake in NALCO and Neyveli Lignite Corporation • Government stops export of pulses to control prices; **23.** Mittal Steel nearing Arcelor takeover • CBI conducts nation-wide raids at 19 places in connection with

the enquiry into the Navy war room leak case • Indo-Pak talks on India's plans to build a barrage on J&K's Wullar lake • Japan lifts two-decade old ban on import of Indian mangoes • Protest by people from 400 villages affected by six dams being built in Narmada valley, in Bhopal; **27.** Reliance Industries to set up Reliance Retail Ltd. with an investment of Rs.10,000 cr. over time; **28.** LTTE denies it had owned responsibility for Rajiv Gandhi assassination • Brah Mos, the supersonic cruise missile, is inducted into the Navy • Post Offices may soon be selling railway tickets; **29.** S.Y. Quraishi is made Election Commissioner • Bust of Gandhiji unveiled in Parliament building in Berlin • Army understood to be against permanent commission for women; **30.** Pakistan releases visa regime for Indian nationals.

July

Nathula Pass Opened

1. Prime Minister announces Rs. 3750 cr. relief package for six Vidarbha districts; **2.** Kerala governor gives his assent to professional Colleges Bill; Management to go to court against Bill; **3.** Heavy rains lash Mumbai city for the third day • V.K. Shunglu Overnight Group on Narmada oustee rehabilitation submitted • Home Ministry considering a temporary bullet-proof steel structure in Ayodhya • First-ever agreement to regularise bilateral exchanges signed

by Parliament of India and China • Spanish Prime Minister Zapatero in New Delhi • Government cuts duties on SAFTA imports; 4. HAL puts production of Sukhoi - 30MKI in top gear; 5. Rain-related deaths in Maharashtra rise to 28 • AIIMS Institute Body recommends dismissal of Director P. Venugopal for violation of Rule 9 of the Conduct Rules; Doctors protest • Shahi Imam of Delhi Jama Masjid forms new party, U.P. United Democratic Front; 6. Nathula Pass opens after 44 years enabling Indian and Chinese traders to cross the border. 29 commodities to be exported to China, 15 to be imported • Investment of Rs. 320,000 cr. in highways, ports and airports envisaged in the next six years • Rain havoc toll in Kerala is 109 • Supreme Court refuses to lift the ban on SIML • 8 new districts being created in JK; 7. Lakshmi Mittal to set up a 12 mt, Rs.40,000 cr. steel plant in Orissa • BSE to divest 51 per cent equity, proposes IPO • Government to declare 500 ITIs as Centres of Excellence • ONGC-Mittal combine is looking at buying oil and gas properties in 21 countries • Inflation falls to 4.84 p.c. • Delhi High Court stays AIIMS recommendation to terminate the services of Director P. Venugopal's services. • Centre accepts site identified by Karnataka Govt for setting up a nuclear plant.

• Centre's Rs 5,000 cr. package for T-5 A.P. station to prevent farmer suicides • NC issues notice to NDA for alleged anti-national activities with the aid of foreign organisations • Uor population in Or is 355 • CSSE proposes health clubs in schools; 9. Intermediate range ballistic missile Agni - III test-fired, but fails in its maiden flight; 10. GSLV-F02 carrying INSAT-4C communication satellite crashes into Bay of Bengal • Prime Minister Manmohan Singh doesn't favour stopping construction work on Narmada dam • Payaz Ahmad Lone, mas-
 termined behind grenade attacks on Sakina Ittoo killed; 11. Over 170 killed and 500 injured in the seven serial blasts that rock stations dotting the Western Railway service in Mumbai, between 6 and 6.30 p.m. • It is revealed that the GSLV launch was not insured • India plans to buy 8 Mi-17 copters from Russia; 12. India describes as 'appalling' remarks made by Pak Finance Minister Kasuri that drew a link between Mumbai attacks and non-resolution of Indo-Pak dispute • Mumbai blast death toll is 136; Life's back to normal; 355 persons up by 315 • National Statistical Commission headed by Dr. D. T. Tendulkar begins work; 13. Conting operations by Army and police troops in progress in Mumbai • Delhi

much of the US is a "major
 force in partnership with
 Diogenes, another veteran
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 Farmer will in Vichitra reach
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 16. 35 farmers from Vichitra
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 Egyptian company acquire
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 • 65 term modules based in
 India in the last seven months
 17. Centre to give Rs. 5000 cr.
 to develop NH17 in Kerala; 12.
 Four naval ships being sent to
 Lebanon for evacuating Indians
 from the country, where
 Hizabolah militant groups are
 under Israeli attack; 19. Rupee
 hits three year low of 46.99, as
 soaring crude oil price causes
 concern • FICO to recruit 4000
 foreign nationals; 20. Decision
 to appoint the Sixth Pay Com-
 mission is delayed by raising
 • Ask President Vichitra to
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 Islamabad's alleged involvement
 in 1998 nuclear tests; 21. President
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Bachchan raises 26,000 pounds from UK for victims of Mumbai blasts • Symbiosis, Pune plans a diploma course in chess • Syed Ali Shah Geelani placed under house arrest in Srinagar • Cabinet rejects President Kalam's call for reconsideration of the Office-of-Profit Bill; **23.** IFFCO to set up a gas-based power plant at Kalol, Gujarat • Tamil Nadu to shift to VAT from January; **24.** Interpol in Nairobi says the man arrested on July 21 and suspected to be an LeT man A.K. 'Tunda' was a British national of Nigerian parents; **25.** RBI hikes its short-term lending rates for the second time in two months - reverse repo rate is 6 p.c. and repo rate is 7p.c. • Air Deccan overtakes Indian to become the second largest airline in India in terms of market share; **26.** Centre rejects Reliance Industries' proposal to sell natural gas to Anil Ambani's RNRL at a price far below the current market price • The next launch of GSLV-F02 to take place within one year • Six AIIMS-like medical super speciality hospitals to be set up in 6 states in 2½ years • Two soldiers in Kashmir picked up for possible links with LeT; **27.** Supreme Court discusses Kerala Govt's petition seeking a review of its verdict allowing the raising of the water level in Mullaperiyar dam from 136' to 142' • RBI raises the ceiling on investments that can be made by domestic mutual funds in overseas markets; **28.** SEBI lifts

new demat account ban on IDBI Bank, ING Vysya Bank and IL & FS • Microsoft India launches a Rural Innovation Fund in partnership with IDRC • Bill to rename Pondicherry as Puducherry introduced in Rajya Sabha • Govt admits fall in wheat production - only 9.2 million tonnes against the target of 16 mt; **29.** National Security Adviser says there is strong evidence of Pakistans' role in cross-border terrorism; **30.** 25,000 people evacuated from low-lying areas in Gujarat • Income Tax returns being received by selected Post Offices • Tehri hydroelectric plant is operational • Evacuation of 70,000 people threatened by floodwaters is on; **31.** A Forbes survey says India is a better place to Invest than China • Scheme in the offing for investors to park upto Rs. 1 lakh in fixed deposit of commercial banks and get tax benefit.

August

Pankaj Advani

1. Banks and housing finance companies hike lending rates by 25-50 basis points • Nine-year-old ceasefire agreement between Government and National Socialist Council of Nagaland extended by one more year; **2.** German software major SAP plans to invest \$1 b. in India over five years • A parliamentary committee favours a Legislature Assembly

for A&N Islands • UP to set up a Tiger Society • Cauvery Tribunal gets 6-month extension; **3.** Justice R.S. Pathak Inquiry Authority finds that former Foreign Minister K. Natwar Singh and his son Jagat Singh misused their positions in getting contracts in oil-for-food scam • Annual inflow of FDI into India from US to increase to \$1 b. by 2010; **4.** Indian Railways and SBI sign MoU for installing ATMs at 681 railway stations • Furore in Parliament over 'leak' in the media of R.S. Pathak report; **5.** Floods in A.P. and Orissa kill 85 • Pakistan expels Indian diplomat Deepak Kaul alleging he was 'caught' red-handed' indulging in Pakistan activities; **6.** N Singh gives privilege against Prime Minister Manmohan Singh on alleged leak of Pathak report • India-Pakistan peace conference scheduled to begin in L put off; **7.** Ruckus in parliament over Pathak report • Chgarh bans sale of col Sensex crosses 11,000 • Tapi river overflows, it cause havoc in the ind belt of Hazira in Gujarat • Gujarat asks for Rs.2000 interim flood relief • K Government bans production and sale of Coke and Pepsi persons marooned in ONGC gas plant at Hazira; **10.** Rajya Sabha C man rejects Natwar Singh's tice of breach of privilege of the House against the offi

by Parliament of India and China • Spanish Prime Minister Zapatero in New Delhi • Government cuts duties on SAFTA imports; 4. HAL puts production of Sukhoi - 30MK1 in top gear; 5. Rain-related deaths in Maharashtra rise to 28 • AIIMS' Institute Body recommends dismissal of Director P. Venugopal for violation of Rule 9 of the Conduct Rules; Doctors protest • Shahi Imam of Delhi Jama Masjid forms new party, U.P. United Democratic Front; 6. Nathula Pass opens after 44 years enabling Indian and Chinese traders to cross the border.

couraged • Centre's Rs.15,000 cr. package for 16 A.P. districts to prevent farmer suicides • SC issues notice to NBA for alleged anti-national activities with the aid of foreign organisations • Lion population in Gir is 359 • CBSE proposes health clubs in schools; 9. Intermediate range ballistic missile Agni - III testfired, but fails in its maiden flight; 10. GSLV-FO2 carrying INSAT-4C communication satellite crashes into Bay of Bengal • Prime Minister Manmohan Singh doesn't favour stopping construction work on Narmada dam • Reyaz Ahmad Lone, mastermind behind grenade attacks on Sakina Ittoo killed; 11. Over 170 killed and 500 injured in the seven serial blasts that rock stations dotting the Western Railway service in Mumbai, between 6 and 6.30 p.m. • It is revealed that the GSLV launch was not insured • India plans to buy 8 Mi-17 copters from Russia; 12. India describes as 'appalling' remarks made by Pak Finance Minister Kasuri that drew a link between Mumbai attacks and non-resolution of Indo-Pak disputes • Mumbai blast death toll is 186; Life's back to normal; BSE sensex up by 315 • National Statistical Commission headed by Suresh D. Tendulkar begins operations; 13. Combining operations by Anti-Terrorist squad in progress in Mumbai • Delhi police to install high-tech CCTV cameras in Rashtrapathi Bhavan; 14. Forex reserves

touch \$163. 260 b. • Indian post, in partnership with Dupont, launches waterproof and tear resistant envelope, right in time for the festival Raksha Bandhan. India is ranked 11th in global car output for 2005 by OICA; 15. Farmer toll in Vidarbha reaches 650 with fresh suicide deaths; 16. 35 farmers from Wadhona village in Amravathi district, alleging official apathy, seek permission from President to go for euthanasia • IFFCO and an Egyptian company acquire 1000 acres in Egypt to set up \$325 m. phosphoric acid plant • 65 terror modules busted in India in the last seven months; 17. Centre to give Rs. 5000 cr. to develop NH17 in Kerala; 18. Four naval ships being sent to Lebanon for evacuating Indians from the country, where Hizbolah militant groups are under Israeli attack; 19. Rupee hits three year low of 46.99, as soaring crude oil price causes concern • TCS to recruit 4000 foreign nationals; 20. Decision to appoint the Sixth Pay Commission is cleared by cabinet • Pak President Musharraf asks India to provide evidence of Islamabad's alleged involvement in Mumbai bomb blasts; 21. Reliance ADA Group to invest over Rs.61,500 cr. in Orissa to set up an institute of higher learning in IT • A multi-disciplinary university to be set up in Puri (Orissa) by Vedanta Resources; 22. Anthrax kills two cows in Kerala • Amitab

50th year, has a total investment of Rs. 465,100 cr.; market pie rises to 77.5 per cent •SCI to acquire 10 offshore vessels in three years •Vice Admiral Suresh Mehta is next Naval Chief •Floods in M.P. and Orissa •Karnataka makes singing of Vande Mataram a must on Sept. 7 •Tripura, with 80.14% literacy, is 8th in the country •Telugu director Kalyana Chakravarthy to make a film on Vande Mataram in 10 languages •Stock market closes in on 12000; 2. Sixth Pay Commission constituted with Justice B.N. Srikrishna as chairman •RBI places United Western Bank under moratorium till Dec. 1 •Ganesh Bank of Kurundwad amalgamated with Federal Bank; 3. Flood situation worsens in J&K; 4. Millions hit by flood in Orissa; Relief hampered by rain •Kerala minister P.J. Joseph resigns, following a reported misbehaviour to a copassenger in an aircraft; 5. Sharad Pawar's daughter Supriya Sule is candidate for RS elections •Prime Minister warns State Chief Ministers of terrorist outfits in the country •Congress expels Jagat Singh, Natwar Singh's son; 6. Opposition from Sikh and Muslim groups to making singing of Vande Mataram mandatory; 7. Vande Mataram sung in offices and schools of several states •Automobile industry seeks tax holiday for investments exceeding Rs.500 cr.; 8. Tamil

Nadu launches Coimbatore as the Model Tier II City •Huge haul of rocket launchers and shells in A.P. •Ethanol-blended petrol to be marketed all over the country from Nov. 1; 9. Rubber prices dip to Rs.77 for ungraded •Prime Minister leaves on 9-day visit to Latin America to participate in NAM summit in Cuba and first IBSA summit •Supriya Sule elected to RS from Maharashtra •Seven killed in J&K violence •DIC(K) splits, with T.M. Jacob and Johnny Nellore quitting; 10. Quake (4.0) rocks Meghalaya •Gandhi's Satyagraha centenary •Police says the Malegaon bombs were made of a deadly mixture of RDX, ammonium nitrate and petroleum •Vandalism at Lucknow's Loreto Convent School; 11. National Commodity and Derivatives Exchange (NCDEX) emerges world's third largest agricultural exchange •VW to locate its Indian greenfield car manufacturing plant at Chakan, near Pune •India's external debt is \$125.2 b. •South African Deputy President Ms. Phumzile in India •Passenger car sales rise to 83,844 units in August from 72,272 in the same month in 2005 •Taslima Nasreen, Bangladeshi writer, asks for Indian citizenship or permanent resident status; 12. Four of the Memon family members held guilty in the 1993 Mumbai blasts cases; 13. Vidarbha farmer suicide toll

reaches 852 •Elephant dies of anthrax in Thekkady, Kerala •Geelani re-elected chairman of the hardline factions of Hurriyat; 14. Jharkhand's Arjun Munda NDA government falls; UPA government with Independent Madhu Koda likely •TADA court holds Shoib Ghansar guilty of planting a bomb in Mumbai's Zaveri Bazaar in 1993 •Prime Minister's visit to Brazil for IBSA summit ends; 15. Prime Minister, on his way to Havana, says NAM is as relevant today as during the Cold War •Separatists S.A.S Geelani and S.A.Shah are placed under house arrest •CBI presses for death penalty for the three Memon brothers convicted in Mumbai blasts case; 16. Prime Minister Manmohan Singh and Pak President Musharraf hold talks in Havana and decide on joint mechanism to counter terror •India-Australia cricket match in Chennai abandoned •RJD leader Ramdhari Singh killed in Buxar •Manmohan Singh asks NAM leaders in Havana to unitedly fight terrorism •Prime Minister Manmohan Singh visits President of Cuba in Havana; 17. A UP minister, Yuqoob Qureshi, fined Rs.14,000 for ticketless travel; 18. Railway Minister Lalu Prasad addresses IIM-A students on the turnaround of the railways into the second largest profit-earning state-run unit •Indian crude basket touches \$59.92, the year's lowest; 19.

Gujarat police bust a terrorist module; four Lashkar ' sleeper cell' members arrested • 297 • India is yaws-free, Ministry of Health says • HAL to build jet fighter engines; 20. 'Delhi Bandh', against a sealing drive by MCD, turns violent, killing three • Jharkhand Chief Minister Madhu Koda wins the vote of confidence • Rs.17,000 - crore rehabilitation package for farmers in A.P., Karnataka, Kerala and Maharashtra with high suicide rates being considered • Cyclonic storm kills 15 in West Bengal; 21. President Kalam attends silver jubilee of Sri Chithra Tirunal Institute of Medical Sciences, Trivandrum • An American Express White Paper says there are 711,000 individuals with liquid cash of over \$100,000 in India, and new number will grow to 1.1 m. by 2009 • Government to set up one lakh rural computer kiosks • Sensex surges to 12,274.27 • Gujarat Chief Minister Keshubhai Patel's wife killed in a fire in Ahmedabad • Sealing and demolition suspended in Delhi till Sept. 25 • CPI wants setting up of SEZs stopped • A Kerala Sastha Sahitya Parishad study says Rs 6787 cr. is spent on weddings in the state annually; and Rs. 2800 cr. on medical treatment • Chikungunya kills 25 people in Kerala's Alappuzha district; 22. Kerala High Court quashes State Court ban on the manufacture and sale of Coke and Pepsi • Government plans to add 100 food testing labs to the existing 31; 23. Telangana Rashtra Samiti withdraws support to UPA coalition government, on the Telangana state issue • Government to set up drug banks in the 600 districts in public-private partnership • PHDCCI study finds northern States (44% of India's geographical area) contributes only 30 % to industrial output • Deepa Mehta's 'Water' nominated as Canada's entry for 2007 Oscar in foreign film category; 24. 8-year old Mrutunjaya Mandal, runs a marathon and collapses • President Musharraf puts forward his Kashmir solution in his book In the Line of Fire • Education Ministry permits deemed, vantage to use 'university' in their names • UPA chairman Mrs. Gandhi says no Deputy Prime Minister is to be appointed; 25. Mumbai multiple PAN card holders to surrender over 3 lakh duplicate cards by Dec.31 • Eight farmers in Vidarbha commit suicide; 26. Mohammed Afzal, the mastermind behind the Parliament attack of 2001, to be executed on Oct. 20 • First case of polio in three years detected in Mumbai; 27. Pakistan allows imports of more goods from India • Speed Post Passport Service expanded to 873 post offices, in addition to the present 220 • Nirupama Rao is Indian ambassador in China • Kerala Government recommends CBI probe into Marad riots • Oversight Committee recommends a review of OBC reservation regime after five years and again at the end of a decade of implementation • Lata Mangeshkar is 77 • President Kalam's website has 2.4 m. hits on Sept.12, a record • The Centaur bomb planter Mushtaq Tarani, in jail since 1993, is charged for terrorism, faces life imprisonment 28. A 50,000 - tonne Russian wheat consignment rejected by STC because of high percentage of extraneous matter • Clearance for 31 more SEZs, including the Rs.53,000 crore investment in Orissa by S. Korean steel company Posco; 29. Growth in manufacturing sector takes GDP growth to 8.9 per cent • Cabinet clears a Rs.16978.69 cr. rehabilitation package for farmers in suicide-prone districts; 30. Kerala's Palakkad is the first 'total banking' district in India with every household having a bank account.

October

Booker Prize for Kiran Desai

1. Pondicherry becomes 'Puducherry' • Dengue deaths in Delhi • Shiv Shankar Menon assumes office as Foreign Secretary; 2. Anil Ambani is the third richest person in India, as ADAG market capitalization touches Rs.100,00 cr. • India and South Africa to treble bilateral trade to \$10 b. by 2010

•Protests over death for Afzal Guru continue in Srinagar
 •Supreme Court says speedy trial is a constitutional right
 •Prime Minister Manmohan Singh and Thabo Mbeki launch Satyagraha Centenary celebration in South Africa
 •35 pilgrims drowned in Madhya Pradesh; 3. LIC's record in first premium income - 150 p.c. increase to Rs. 12,390 cr. over last year
 •Kerala where 71 deaths from Chikungunya are reported, seeks help from Centre and WHO
 •India's nominee Shashi Tharoor announces withdrawal from the race for UN SG's post, after South Korea's Ban Ki-Moon emerges a clear winner in the fourth straw poll
 •India emerges as the second largest global cotton producer
 •Mahesh Bhupathi says he won't play for India
 •Prime Minister concludes 4-day South African visit; 4. RBI tells banks to issue passbooks to SB account holders
 •Fidayeen attack on CRPF headquarters in Srinagar, three policemen killed
 •WHO experts arrive in Kerala to study chikungunya deaths
 •'Garib Rath', the poor man's AC train flagged off at Saharsa, Bihar; 5. Foundation laid for Western Railway's dedicated freight corridor project
 •Family members of Mohd. Afzal, who is facing death penalty, meet President Abdul Kalam; 6. Delay likely in the passage of legislation in US Congress on civilian

nuclear cooperation with India •CIL-Infosys to launch a programme 'Toward 100 Indian Billion \$ MNCs'; 7. 13 lakh people affected by Chikungunya in the north Indian states; 9. Govt. to hold talks with NSCN(IM) in Amsterdam
 •More dengue cases reported in Delhi; 10.CBI registers a FIR against former Defence Minister George Fernandes, in the Israeli Barak missile case; 11. Kiran Desai, 35, wins Booker Prize for *The Inheritance of Loss* - the youngest woman to claim the Rs.42 lakh prize
 •SC holds that it has the power to review the pardon exercised by President or Governor to a convict; 12. South African cricketer H. Gibbs says in New Delhi South African captain H. Cronje offered him money twice to under perform in ODIs
 •BSNL cuts STD rates to Re. 1 for fixed line; 13. Parties approve delimitation for 2009 elections
 •IITs placed No.3 in global rankings of world's 100 best technology universities; 14. Hundreds of Dalits embrace Buddhism and Christianity at a mass conversion programme in Nagpur
 •Jabbar Patel's film 'Dr. Babasaheb Ambedkar' to be made in nine languages
 •Mayawati says she wants to be the first dalit Prime Minister of India; 15.Air India flight stranded at Heathrow airport for two days arrives in New Delhi with 300 passengers

•Mukesh Ambani is the richest in India, a position held so far by Azim Premji; 16. Sensex gains 192 to reach 12,928
 •Mayawati converts to Buddhism; 17. Rupee at 5-month high of 45.27 per dollar
 •Dabhol power plant to restart by Nov. 15
 •Planning Commission targets 9% growth in 11th Plan
 •Mobile users in India rise to 129.53 m; 19. Veteran actress Srividya, 53, dies
 •35 feared dead in bus plunge near Rewa
 •SC holds that the creamy India layer should be excluded from reservations for SC & ST in Government jobs; 20. Tata Steel announce the largest Indian takeover of a foreign company with a \$4.3 b. for Corus, the Anglo- Dutch firm; 21. Delhi leads metros in delivering RTI Act
 •An army personnel arrested in Delhi while allegedly handing over sensitive papers to a driver of Pak High Commissioner; 22. National Security Adviser says India will share intelligence if Pakistan cooperates
 •Arun Nayar to wed Liz Hurley at Udaipur Palace in Feb'. 07
 •Gas leak in Kota kills one, 70 are ill
 •Farooq Abdullah wants Afzal to be given opportunity to defend himself
 •Railways to phase out 10,000 AC coaches
 •Navy to restore Sea Kings; 24. Pranab Mukherjee sworn in External Affairs Minister and A.K. Antony Defence Minister. ■

INFORMATION TECHNOLOGY

**PART
03**

Knowledge Management Paradigm

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The best and the very well known model of Knowledge Management (KM) is the human brain. The five senses touch, taste, vision, hearing and smell, collect the data. The brain computes the data, converts it into information and stores it in the memory. One part in the left half of the brain interprets the data while the right half applies logic and starts a thought process. Somewhere else in the brain inquisitiveness pops up its head and investigation starts. The intuition comes to the aid from somewhere. Feedback is collected from the environment. Finally, a concoction of information, intelligence, intuition, investigation, and inquisitiveness is formed and knowledge is formed. Intelligent and gainful management and utilization of knowledge brings in wisdom, which results into prosperity, well being and creativity to the individual as well as to the society. The technological revolution that is continuously taking place in the world over and the feasibility of collecting enormous amount of data, getting it processed into information, storing the information and converting it into knowledge by of the computer technology has made it possible to have repository of fathomless and limitless expanse of ocean of information and knowledge. Consequently, the management of knowledge using tools, techniques and processes has become a lifeline for the citizens not only for keeping themselves afloat on the ocean (of knowledge) but also for navigating them to their cherished destination.

Knowledge by itself is an abstract perception. It takes different forms and content de-

pending upon the context of the situation one is dealing with. There is explicit knowledge in the head of an individual about the phenomena, events and the physical entities one experiences or comes across. In the context of an organization, its 'knowledge' is its 'know-how', its proficiency, its capability to take important strategic decisions and above all, its human intellectual potential. This knowledge results in assets like Intellectual Property Rights, patents, trademarks, business plans, intuitive predictions about futures etc. People create synergy by participating in brainstorming sessions and information exchange processes and apply tacit knowledge to find solutions to the encountered problems as well as to develop new techniques, know-how, processes and products.

Knowledge management basically comprises the following: 1) Knowledge creation - generate data, process into information, learn, research, innovate and collate the distributed knowledge. 2) Capture knowledge from the memories, personal notes, scratch pads, diaries of individuals, documents, and computer data bases, often geographically distributed all over the globe. 3) Store the knowledge in knowledge repositories like web servers, databases, knowledge warehouses, knowledge portals and digital libraries. 4) Structure and transform the information and knowledge into well organized format such that it is conveniently, easily and quickly traceable and accessible. 5) Share the available knowledge with people through knowledge fusion into the society using the ICT and Internet tools. 6)

Manage the knowledge through the smart minds of motivated, committed and knowledgeable individuals. In other words, Knowledge Management system can be defined as a distributed hypermedia system for managing knowledge for individuals as well as for organizations for supporting creation, capture, storage and dissemination of expertise and knowledge. The Internet has provided a mighty tool for KM. Internet comprises a distributed hypermedia system using general purpose client server technology and diversity of knowledge sources and computing resources. Knowledge seekers - all of them often located at geographically distributed places - log on to the Internet and get the information on their computer at any time of day or night, without any time restriction. This has become a valuable asset for Intellectuals, researchers and students. However, it is not without problems. There is always a possibility that the user can get totally lost, if not drowned in the vast ocean of information. Those of you who have searched the Internet for any specific topic of interest, would have faced the fact that the Internet search engine, like Google for example, presents before you, within seconds, some lakhs of references and you get totally frustrated and impatient because you can't choose the correct hyperlink, which will take you to the desired information. The whole of the ocean of information is available to you but what you need is a relevant drop from this ocean which contains exactly what you are looking for at the specific time for a specific purpose. The KM, in this case, is to structure, segregate and catalogue this information and provide the tools and techniques to enable you to navigate on the ocean such that you reach your destination - a small drop containing your information, which might be located in some corner somewhere in the vast ocean. Large number of software tools are available which provide access to the knowledge portals and digital

libraries and present the data to the user in value added format using multimedia and virtual reality systems and various tools and techniques like Graphical User Interface (GUI), animation and 3D virtual projections.

Knowledge-based Industry

The major assets of a KB industry are in the form of information and knowledge and the intellectual property is the capital. Synergy of the knowledge assets of the individual employee, company strategic planning capabilities, knowledge-based products, processes and services, and interdependencies and interactions between the various stakeholders and disciplines have turned the industry of the modern society into knowledge-based industry. Technology is generating better performance and achieving breakthrough in business operations, in productivity improvement and in cost reductions when empowered with knowledge base and wisdom. Ongoing learning and unlearning, and adaptation of knowledge is giving the industry competitive edge. Employees sharing their knowledge (residing in their brains and computers) can potentially lead to more effective problem solving and generate ideas for new or improved products and services. Basically, almost every industry, be it manufacturing industry, semiconductor industry using nanotechnology, pharmaceutical industry, or nano-biotechnology based industry, all of them are harvesting the knowledge and their structure is becoming increasingly knowledge-based, technology-intensive and skill based. A new class of industry has appeared on the scene in the knowledge and information society today. These industry products and services use information and knowledge as raw material and the processes are brain based. Computer software industry, IT enabled services (ITES), financial and legal services, BPO industry, and media and entertainment industry are some of the examples of such industry.

Knowledge Management.

Industry has to leverage intellectual assets through knowledge management. Core competencies get highly developed when deeper understanding of and knowledge about the technologies and processes get embedded into the products. Knowledge management helps in identifying risks and in developing better customer relationship. KM supports creativity, optimizes reengineering of the processes and improves strategic planning. The fundamental dictate of KM is to get the right kind of information to the right people at the right time. KM also means sharing of the knowledge with right participants in right proportions. Organizations have to develop culture and mechanisms that allow employees to share their knowledge with others, while avoiding information overload or misuse. Organizations have to promote, value and reward sharing of knowledge amongst workers. Knowledge management utilizes tools like Artificial Intelligence and Expert Systems, knowledge modelling programmes and brainstorming sessions. Software tools like secure, store, track and manage documents, synchronous interaction tools, data mining tools, e-learning systems, and Enterprise Resource Planning tools (ERP) are often used in knowledge management. Another effective tool for collecting business intelligence and for extrapolation of trend setting predictions is the Delphi analysis. In this process a questionnaire is circulated amongst the experts in the field and their views and opinions about the future of a particular technology are sought. Discussions are held separately with each one of them at least in some cases. The data so obtained is analyzed and the differences in opinions of several experts are narrowed down after giving the experts a feed back about other's views and by sharing more information with them. A futuristic technology scenario based on the consensus is projected on the canvass and is used for strategic planning of a company. Multiple future trajectories based on such analysis and

projections can diminish the risk of strategic obsolescence.

Intranet and Extranet for Knowledge Management.

A typical KM strategy of a company is implemented through Intranet. All the functionaries are networked on the company's internal network called Intranet, which basically uses Internet protocols and is compatible with the Internet. The information regarding the projects, processes, designs, tools, inventories, consumer requirement; CPM - PERT charts etc. is made accessible to the persons concerned on a real time basis. Conference calls are set up amongst the participants. The progress of the work, schedules and bottlenecks are monitored on line. Corrective actions are taken. Such a system helps in improving productivity and lowering costs through synergy of people, processes and technology.

One of the Inter-company knowledge management systems - Supply Chain Management System - SCM uses extranets. The raw material and component vendor, the sub contractor, the manufacturing company, the marketing company, the distributor and the consumer normally form a supply chain. Extranet is formed when intranets of all these companies are interconnected. Everybody concerned is connected in real time and inventory supply from the component vendor can be regulated in real time as per the requirement of the manufacturing process. The Just In Time (JIT) inventory management achieved in this process is a big achievement of the SCM system. The second advantage of the SCM is that the stock in the manufactured goods warehouse also gets regulated as market requirements are fed back in real time, which regulates the quantity of products scheduled for manufacture at any given time. Increased productivity and lowering of costs are direct results of real-time monitoring and sharing

the knowledge about the requirements of manufacturing unit as well as that of the market demand. Interestingly, SCM is considered analogous to the game of playing cards - 'The Bridge.' You have partners as well as competitors participating in the game. You announce your bids in courteous manner. Your partner makes intelligent guesses based on his own cards. The competitor does not get an inkling of what is happening and makes speculative advances. The 'hands' you get are the fruits you and your partner can jointly enjoy.

Knowledge Management In Fishing Industry.

Satellites take the pictures of the fish shoals moving in the oceans. The Global positioning system (GPS) using the satellites determine the latitude, the longitude and depth of the location of the fish shoal and transmit it in real-time to the fishing boat. The boats get the navigational assistance from the satellite, reach the top of the spot, where fish is located and see the images of the fish shoal on the monitors of their fish finder equipment. The cache becomes voluminous. Knowledge provided by the high-tech system to the small fisherman helps in enhancing productivity of the fishing industry.

Knowledge Process Outsourcing. (KPO)

Non core processes like for example the infrastructure management is generally outsourced under BPO (Business Process Outsourcing). Since knowledge processes themselves have become part of the input raw material of the Knowledge Based industry, it is now becoming common practice to outsource the knowledge processes themselves. Research & Development, design of some of the products and processes, analysis and validation of performance as well as software programme development are outsourced to companies which have the competence in the specific areas. The quality and the performance of the

products can be enhanced and production lifecycle time can be reduced with a strategic investment in R&D infrastructure covering the areas of multiple technology product range. It is the core competence of the partner manufacturing company can be profitably utilized for your company's benefit through KPO.

World Knowledge Platform

The Honourable President of India Dr. A.P.J. Abdul Kalam has given a new thrust to the Knowledge Paradigm and suggested that the World Knowledge Platform should be created. In His Excellency's address to NASI COM 2004 leadership forum at Mumbai on 12.02.04, he has discussed the World Knowledge Platform which will provide greater opportunities for the R&D organizations, institutions, IIT, IIS and other manufacturing industries from a group of nations for joint design, development, production and marketing of knowledge products to meet the world market in association with the partnering nations. India and like minded nations will be strategic partners in trade, business and industry and will deliver synergetic performance of WKP in the world market. The WKP will bring together the core competence of the partnering nations for design, development and production of the knowledge products and systems. The WKP will lead to evolution of new markets through e-business network. The WKP will initially prepare a knowledge grid, which will connect, using fibre broadband, the R&D institutions, universities and the industry from the partnering nations on selected R&D missions. The WKP will utilize the convergence of bio-nano and IT technologies and take up missions in areas related to energy management, health care, gene characterization and stem cell research as well as research for drug treatment of cancer, diabetes, natural products, tourism and hardware, software and water treatment, etc.

Micro Fuel Cells connectivity

Fuel-cell-powered vehicles are passé. Portable fuel cells, called micro fuel cells, are set to make their presence felt on our palm very soon. When commercially available, these will replace conventional batteries like lithium-ion rechargeable in the next generation of power-hungry cellphones, laptops, digital cameras, camcorders, personal digital assistants (PDAs) and other gadgets. The market demand for micro fuel cells is building towards mass acceptance by 2008. Research firm Frost & Sullivan predicts that by 2008 as many as four million mobile devices will be powered by fuel cells. Another research by Winter Green Research expects the micro fuel cell market to reach \$11 billion by 2013. This represents a range of PC, handset, PDA and digital devices in a variety of industrial, military and healthcare segments.

Disc protection at hand

Now you can burn copy-protected CD on your CDwriter. No more fear of somebody stealing your valuable documents and applications! The blank media has a prewritten session comprising DiscKeeper security elements, leaving 600MB of space free for writing your digital content and a proprietary writing software provided free. These CDRs are fully compliant with the Orange Book standard and can be read on any standard CD/DVD reader/writer. uslindia.com offers premium copy protected blank media on which files like pdf, doc, xls, ppt, jpg, bmp, mp3, html, mpg, avi, rtf, swf, flv, etc. and applications of ones' choice can be written where security is critical.

FLASH IN HARD DRIVES

In May 2006, Microsoft and Samsung showcased the technology of a hard drive with a Flash memory inside, at WinHEC (Windows Hardware Engineering Conference). However, the OS code that supports the Flash package will only ship with Windows Vista. The first unit that Samsung showed off in 2005 had 128 MB of Flash, which was used to cache start-up data and other frequently-accessed information, both to make the loading of the data into RAM faster and to boost laptop battery life. Intel plans to incorporate the Flash on an add-in card rather than putting it in the hard drive. This approach allows the Flash to be replaced easily and will keep hard drive prices down, but will raise the system price. In fact, Intel, Hynix, Micron, Sony and other companies have founded the Open NAND Flash Interface (ONFI) working group, which will develop a specification that might make it easier to incorporate Flash memory in laptops.

The initial specification is expected to be completed before 2007.

Nanotech begets BlueGene

IBM is backing a research centre being developed at Rensselaer Polytechnic Institute (RPI) worth \$100 million. The Computational Center for Nanotechnology Innovations (CCNI), based at Rensselaer Technology Park in Troy, New York, fuels further research into shrinking electronic development including computer chip. An IBM BlueGene super-computer, yet to be built, will power the effort. It will be able to perform trillion

calculations per second (70 teraflops). According to Herb Schultz, marketing manager for BlueGene IBM, to do simulations on how molecules react, which is the essence of nanotechnology, researchers need the computing power that Blue Gene delivers.

TV-on-mobile chip

Royal Philips Electronics has released a TV-on-mobile chip that is six times smaller than the previous versions. The TV-on-mobile technology provides consumers with live access to news, sports highlights, music videos, interactive programming and more on mobile phones, personal media players and other small portable devices. Named BGT215, the chip measures just 7x7 mm² but contains all the functionality of a complete digital TV front-end receiver. Small size makes it easy to integrate the chip into mobile phones, enabling extensive product differentiation for smaller, more elegant phone designs with greater consumer appeal. The chip maintains the advanced features of prior versions and delivers low power consumption.

Chip at tiny new scale Intel has developed the world's first microchip that promises to be a more powerful, efficient processors. The fingernail-sized memory chip is etched with one billion transistors that are only 45 nanometres wide—around 1000 times smaller than a red blood cell. Packing about two times as many transistors per unit area, it will help future products and platforms deliver improved performance.

Boot Camp Lets XP Run on Intel Macs

Windows XP has arrived on Intel-based Macs, courtesy of two new pieces of software—Apple's Boot Camp and Parallels Workstation 2.1. Boot Camp is an option for anyone who'd like to run OS X but still needs Windows for productivity or gaming. Boot Camp and Parallels Workstation take

different approaches to bringing Windows to Macs. Apple's utility helps automate the process of creating a dual-boot machine that can run Windows natively. The functionality will be built into Mac OS X, dubbed Leopard. In contrast, Parallels employs Intel's virtualisation technology to run Windows and other operating systems from inside OS X. *Boot camp* works only on Apple's new Intel-based Macs plus a firmware update.

Increase battery life

With portable devices like cellphones, PDAs and laptops gaining popularity among consumers everyday, batteries are becoming critical selection criteria for such devices. With the costs of batteries becoming quite significant, here are a few tips which would help a user to wring the maximum performance out of the portable devices. The battery that is used in mobile phones is a compromise between the capacity, cost, the size and the weight of the battery. So that leaves just one choice—to reduce the size and prolonging the life of the batteries because performance comes at a price and the original batteries costs quite a bit to replace.

Few tips The worst enemies of a battery is heat and rough handling like dropped or twisted or otherwise tortured. Know that battery will not last much longer if it is charged longer, because the battery can't hold any more charge than it is designed for. Besides most of the batteries have a fixed life span of a 400-600 cycles of charging and recharging. Each time a device is left on the charger, the device starts discharging after the battery is fully charged. This cycle of charging and discharging cuts down the life of battery quite sharply. Complete discharging the battery and recharging is bad. So, charge the battery at the low battery warning, at 5-10% of the total charge.

Computers

Today microprocessors can be found in children's toys, word processors, pocket calculators, industrial robots, home appliances, etc. - to mention a few of their innumerable uses and there is practically no new machine, instrument, control equipment or information system that does not have a microprocessor in it.

Characteristics of Computer: Speed, Storage and Retrieval, Accuracy, Versatility, Automation, Diligence (no fatigue), etc.

Computer Application: Education-at school & home, libraries, scientific research, office automation, report generation, banking, insurance, engineering colleges, management tool, industrial application, communication, traffic management, medicine, weather processing, space research, defence, stock & share market, games, payroll package, salary slip generation, tax calculation, fashion designing, product design, system analysis, hospitals, architecture, mass mailers, online ticketing, booking vacation, etc.

Classifications

The first four generations of computers were based on the technology of the age to which they belonged. They were thus based on the vacuum tube technology; the transistor and printed circuit technology; the integrated circuit technology and the Very Large Scale Integrated (VLSI) technology, respectively. The marvel of the fourth generation VLSI technology is that a microchip weighing a few grams — a thin silicon chip using 0.13 micron technology (SDRAM) has a memory capacity of one Gigabyte (10⁹ or 100 crores of

bits of 0s and 1s equivalent of 8,000 newspaper pages). (Note: bit is an abbreviation for the binary digit). Presently the development has entered areas of "Artificial Intelligence." These are generally called *Fifth Generation computers*.

Today computers can be classified as mainframe computers, mini-computers and micro-computers.

Mainframe computers are expensive, large, centralised computer facilities where a super computer (like the CRAY or PARAM or CYBER) or a large computer (like the DEC 10, IBM S390 models etc.) is connected to several terminals. A multi-user mainframe computer has a large memory and is capable of speeds of the order of several billions of floating-point operations per second (Flops).

Mini-computers are also multi-user computers comparatively operating at slower speeds and lesser memory. In the mini-computer category are the extremely popular DEC10, PDP-11 and the VAX-11 computers of the Digital Equipment Corporation (DEC).

Micro-computers are based on standard micro-processors marketed by Intel, Motorola, etc. A micro-processor is a single silicon electronic chip which contains the ALU and the control unit.

Micro-computers are often called Personal Computers or PCs since they were originally intended to be single user devices either at the office or at home. The home computer is a PC providing education, entertainment, information and communication facility at home. Now-a-days one can send email, egreetings, chat, play games, hear music,

play video, videoconferencing, do shopping, banking operations, reserve travel tickets, with the help of a home PC and internet without leaving one's home.

The Micro World

The micro-computer industry was revolutionised by the entry of IBM, which started marketing PCs in 1980.

Binary System

Zero and one in their endless combination constitute binary system on which computers are based. A scheme of numeration with base ten requires ten symbols or ciphers (including zero), whereas an arithmetic with the base two requires only two ciphers: 0 and 1.

The binary numbers for the following numbers are written as 0-0; 1-1; 2-10; 3-11; 4-100; 5-101; 6-110; 7-111; 8-1000; 9-1001; 10-1010; 11-1011; 15-1111; 16-10000.

Boolean algebra was developed to deal with binary numbers. Under the binary system all ordinary arithmetical operations are reduced to their simplest form. The binary system of numeration was used early in the seventeenth century by Thomas Harriot.

Understanding Computer

CPU The System Unit contains the heart of the micro-computer - a micro-processor, the Dynamic Random Access Memory (DRAM), floppy disk drive(s) and Zip drive for auxiliary storage, CD ROM drive/writers for multimedia, a built-in speaker and some expansion slots for system enlargement. Additional dynamic memory boards, chips and modules can be used to enhance the memory of the micro-computer. The ROM stores permanently programs essential for the operation of the micro-computer. Multimedia card (sound card) with external speakers and a MODEM (as an interface with telephone line) can be added to the system unit to enhance its capabilities such as for internet access, etc.

Motherboard A motherboard is designed from chipset up to support a specific type of processor and its performance and features depends on the chipset.

What makes this component important is the fact that all the other components, such as, video card, sound card, hard drives, CD ROM drives, and even peripheral's like printer, modem, etc., plug into and communicate with each other via the motherboard. The motherboard acts as the central (and largely) part of any computer.

Chipset The motherboard is built around a chipset that supports a specific class of processors and memory. The main system chipset, commonly called the North Bridge, comprises the logic circuits that contain a blueprint of how the processor, memory and other integrated components on the motherboard are meant to communicate. It acts like a hub, controlling the transfer of data between the processor, its cache, system buses and various peripherals. The timely transfer of data free of error is probably the most important job of the system. Its proficiency in performing this task dictates how well the system works as a whole. Other than the North Bridge, motherboards also have a separate South Bridge that integrates, manages and controls all 'external' IDE, ISA, PCI, USB, IEEE, etc. devices.

Nowadays motherboards with integrated graphics and audio features are getting popular owing to its low cost.

Memory Today, most PC systems (Personal Computer) come with 256 MB to run basic applications. 512 MB-1 GB is needed for optimal performance when using graphics and multimedia programs.

The Role of Memory in Computer English in the computer industry commonly uses the term "memory" to refer to RAM (Random Access Memory). A computer uses RAM to hold temporary instructions and data to complete tasks. This enables the

CPU (Central Processing Unit), to access instructions and data stored in memory very quickly. A good example of this is when the CPU loads an application program - such as a word processing or page layout program into memory, it allows the application program to launch and work faster and efficiently as possible.

Memory and Storage The term memory refers to the amount of RAM installed in the computer, whereas the term storage refers to the capacity of the computer's hard disk. Another important difference between memory and storage: the information stored on a hard disk remains intact even when the computer is turned off. However, any data held in memory is lost when the computer is turned off.

Megahertz (MHZ) Memory chips has the ability to synchronise themselves with the computer's system clock, making it easier to measure speed in megahertz, or millions of cycles per second. Therefore, it makes it easier to compare the speeds of different components and synchronise their functions. In order to understand speed better, it's important to understand the system clock.

System Clock A computer's system clock resides on the motherboard. It sends out a signal to all other computer components in rhythm. Each wave in this signal measures one clock cycle. If a system clock runs at 100MHz, that means there are 100 million clock cycles in one second. Every action in the computer is timed by these clock cycles, and every action takes a certain number of clock cycles to perform. It's possible for the CPU and other devices to run faster or slower than the system clock. Components of different speeds simply require a multiplication or division factor to synchronise them. The variations could be because most of the time, the system bus and other components run at different speeds.

Cache Memory Cache memory is a rela-

tively small amount (normally less than 1MB) of high speed memory that resides very close to the CPU. Cache memory is designed to supply the CPU with the most frequently requested data and instructions. Because retrieving data from cache takes a fraction of the time that it takes to access it from main memory, having cache memory can save a lot of time. If the information is not in cache, it still has to be retrieved from main memory, but checking cache memory takes so little time, it's worth it.

Levels of Cache: Today, most cache memory is incorporated into the processor chip itself; however, other configurations are possible. In some cases, a system may have cache located inside the processor, just outside the processor on the motherboard, and/or it may have a memory cache socket near the CPU, which can contain a cache memory module. Whatever the configuration, any cache memory component is assigned a "level" according to its proximity to the processor. For example, the cache that is closest to the processor is called Level 1 (L1) Cache, the next level of cache is numbered L2, then L3, and so on. Computers often have other types of caching in addition to cache memory. For example, sometimes the system uses main memory as a cache for the hard drive. It's important to note that the term cache can refer specifically to memory and to other storage technologies as well.

Networking

A network is the means by which computers share and exchange information and resources across either short distances (Local Area Networks) or globally (Wide Area Networks). Advantages of Networking are: i. Sharing of data, ii. Transfer of files, iii. Data security; iv. Less memory usage, v. Common hardware, software resources, vi. Cost sharing or less expensive.

Making the best use of networking tech-

ology is about making better use of business resources, enhancing productivity and efficiency, reducing costs and gaining competitive advantage. Networking enables everyone in an organisation to communicate with and share resources with everyone else—giving them access to data held in individual PCs, by remote office sites or external suppliers and giving users the ability to share printers, fax, CD-ROM and modem technology etc. Networks can be designed for organisations of all sizes from the small office with between two and ten workstations to the largest international corporations linking thousands of workstations.

Types: LAN - Local Area Network, MAN - Metropolitan Area Network, WAN - Wide Area Network.

A LAN is a group of desktop computers located relatively close to one another and connected through cabling system to enable them to share access to computing resources. LAN satisfies two fundamental requirements—(a) *Sharing information* and (b) *Sharing computer resources*. A LAN typically consists of PCs on the same floor of a building or situated on different floors in the same building. It may even consist of computers which are within the factory area, but spread across various buildings like administrative block or production block or warehouse, etc.

LANs consist of workstations which are connected to a central computer called file server (special purpose computers). [Workstations are the nodal computers on which users do their work—like executing their own application programs locally and sending request to the file server for any of the network function and receiving the response from the file server. All workstations on LAN would have a Network interface.] LAN's topology are of 3 types (a) Star (b) Ring and (c) Bus.

It mainly consists of the following three components:

Medium: Over which data transfer takes

Wi-Fi phone

Netgear and Skype have unveiled a Wi-Fi phone that functions over the voice-over-IP service. The phone allows Skype wireless service users to call anyone anywhere in the world. The Skype users can use the phone or any wireless Internet connection after entering their username and password. The phone will function on encrypted Wi-Fi networks as long as the user has the proper network ID.

place. It can be a telephone line; a coax cable or a fibre optical cable.

Network Interface Unit (NIU): It provides an interface between the LAN medium and the computer hardware, generally a NIU directly interfaces with the main system.

Network Software: Runs in each of computer systems connected to LAN, provides network-wide communication capabilities to the user software. A part of software resides in the network interface unit.

When computers are spread over a large geographical area, like intercity, intrastate across buildings, etc., and still they are connected to one another in order to share information, the configuration is called Wide Area Network (WAN). WANs are extensions of LANs. Two LANs can be connected by telephone lines and modems. A special purpose computer and network operating system (NOS) is required to establish connection. WAN, therefore, enables users to take full advantage of resources by working from home, sending e-mails with external suppliers, connecting building links to remote offices, etc.

Windows Vista

Windows Vista is Microsoft's new OS, brought out in six versions, from Starter to enterprise editions. All versions are available in both 32-bit (x86) and 64-bit (x86-64) architectures, except Windows Vista Starter only in 32-bit architecture).

Windows Vista Starter Much like the Windows XP Starter Edition, this edition will be limited to emerging markets, mainly to offer a legal alternative to using unauthorised copies. It will be severely limited, for example only allowing a user to launch at most three applications with a user interface at once, will not accept incoming network connections, and physical memory is limited to 2 GB. Additionally, only Celeron and Pentium III processors from Intel, and AMD's Duron, Sempron and Geode processors are supported.

Windows Vista Home Basic Similar to Windows XP Home Edition, Home Basic is intended for budget users not requiring advanced media support for home use. The Windows Aero theme with translucent effects will not be included with this edition. Home Basic will support up to 8 GB of physical memory.

Windows Vista Home Premium Containing all features from Home Basic, this edition will additionally support more advanced features aimed for the home market segment, such as HDTV support and DVD authoring. Extra games, mobile and tablet computer support, file system encryption, and a photo management application are also included. This edition is comparable to Windows XP Media Center Edition and Tablet PC Edition.

Home Premium will support up to 16 GB of physical memory.

Windows Vista Business Comparable to Windows XP Professional, and aimed at the business market. Does not include the Media Center features of Home Premium, but does include the IIS web server, fax support, offline files, dual physical processor support, Remote Desktop, ad-hoc P2P collaboration capabilities, and support for 128 GB of memory. Product activation is not present in this edition.

Windows Vista Enterprise This edition is aimed at the enterprise segment of the market, and is a superset of the Business edition. Additional features include a single-session version of Virtual PC, multilingual user interface support, BitLocker Drive Encryption, and UNIX application support. This edition will not be available through retail or OEM channels, but through Microsoft Software Assurance.

Windows Vista Ultimate This edition combines all the features of Home Premium and Enterprise editions, and additionally comes with podcast creation support — which Microsoft has dubbed “blogcasting” — a game performance tweaker (WinSAT), DVD ripping capabilities, and special online services for downloadable media, as well as additional customer service options. The Ultimate edition is aimed to be the most impressive edition of Vista, aimed at high-end PC users, gamers, multimedia professionals, and PC enthusiasts.

“Home Basic N” and “Business N” editions of Windows Vista will additionally be available

in the European Union. These editions will ship without Windows Media Player, as required by sanctions brought against Microsoft for violating anti-trust laws.

Capable: A modern processor (at least 800MHz1); 512 MB of system memory; A graphics processor that is DirectX 9 capable.

Premium: 1 GHz 32-bit (x86) or 64-bit (x64) processor1; 1 GB of system memory;

A graphics processor that runs Windows Aero2; 128 MB of graphics memory; 40 GB of hard drive capacity with 15 GB free space; DVD-ROM Drive3; Audio output capability; Internet access capability.

Features available in specific premium editions of Windows Vista, such as the ability to watch and record live TV, may require additional hardware. ■

Linux

Linux is a scaled-down UNIX operating system originally developed by Linus Torvalds, then a University student in Finland, now used in everything from PDAs, watches, PCs, consumer electronics, servers and supercomputers.

Beginning Linux was originally Minix, an educational version of UNIX developed by Andrew Tannenbaum. As an interesting aside, we might be talking about Minix today if not for the licensing that Minix required. Few people have heard about Minix today, far less than have heard about Linux.

Early on, Linux grew as a cheap UNIX that ran on Intel-based PC equipment. At the time, you could purchase UNIX for PCs, but at a high cost (as much as \$1500 for a developer's version of Interactive UNIX).

Linux Distributions Technically, Linux is really just an OS kernel, produced under the direction of Linus Torvalds. But, Linux usually comes with a set of utility, desktop, and server programs, including networking suites, Web servers, file systems, compilers, and a whole lot more. For example, Linux includes the XFree86 version of the X Window System, the GNU C compiler GCC, and code from quite a lot of other sources. But to make

things confusing, there's more than one version of Linux.

A number of organisations, commercial and some volunteer, collect together versions of all these programs with the Linux kernel, test that everything works together, and then release what is called a distribution of Linux.

The main Linux distributions include: RedHat, Kondara MNU/Linux, SUSE (self CD-loading), Linux Mandrake, Knoppix; Slackware.

The best Linux distribution to try is the one that is handy or readily available from friends, computer magazines or books, etc. For further reference - url:<http://sourceforge.net>

Computer virus

Computer viruses are programs that spread across computers by attaching a copy of itself to the files on your infected computer. When you run the infected file the virus gets into action. A virus is usually harmful and can corrupt data, overwrite files, or use up system resources, and slow it down in the process. Some may be merely disturbing like sending email using your addressbook. Viruses are usually written by programmers to cause trouble.

Open Source

Open Source movement is a large movement of programmers and the computer users that advocates unrestricted access to the source code of software. It grew out of licenses like BSD, the ubiquitous access to Unix source code at universities. The boundary between the Open Source and Free Software movement is blurred. Richard Stallman and Linus Torvalds personify the trend that created Open Source Community of developers. The biggest strength of Open Source has been that it is free. Besides, it has got the advantage of peer-review and sustained innovation in software. The basic idea behind Open Source is, when programmers read, redistribute and modify the source code for a piece of software, the software is

evolving. People improve it, adapt it and fix its bugs themselves at astonishing speed. Almost everybody knows Linux but there are other success stories like FreeBSD (Unix-like OS); GNU (mother of all FOSS applications, esp., the GNU Compilers), Firefox (web browser as an IE alternative and used by 100 million), Apache (web server hosting numerous websites), MySQL (database server), php (personal home page: web programming language created by Rasmus Lerdorf powering dynamic websites and enterprise as well), Thunderbird (alternate email client to Outlook, without security flaws), KDE (graphical desktop environment FOSS OS), and Debian (a distribution of Linux termed as 'totally free'). ■

Internet

As of March 31, 2006, according to Internet World Status, over 1.02 billion people use the Internet. Google search engine claims indexing 8.05 billion pages whereas Yahoo claims 19.2 billion. Internet was conceived in the form of computer networking at the Massachusetts Institute of Technology in 1962. After a incubation period of seven years the firstborn of the species appeared on the scene in September 1969 as Advanced Research Project Agency Network (ARPANET) of Department of Defense of Government of USA. The DOD was

working on a complex project where the input of very high academic and technological content was required to be integrated. The work was being carried out at Stanford Research Institute, University of California at Santa Barbara and at Los Angeles and University of Utah. The computers at these four places were networked together and communications between them were established thus creating the ARPANET. ARPANET consisted of four major technological breakthroughs. (1) Interface message processor, (2) Network topology, (3) Network metrics and

(4) Architectural design. M/s Bolt Beranek and Newmon, M/s Network Analysis Corporation, University of California at Los Angeles (UCLA) and DARPA were the agencies working together to evolve the ARPANET. The first public demonstration of the network was organised during the International Computer Communication conference in September 1972 and presented by Bob Kahn, the designer of the ARPANET architecture. The number of computer users connected to the network was 15 in 1971 and rose rapidly to 407.1 million in November 2000.

The next major milestone was in 1982 when Defense Data Networking (MILNET) created TCP/IP protocol suites for ARPANET and other military networks. It is natural to expect that when large number of users get on to a network, all of them must use the same standard formats and protocols so that the data can be transferred from one system to another in an orderly fashion. These Transfer Protocol and Internet Protocols (TCP & IP) have now been universally accepted. Once the network was established, the users wanted to transfer large data files. Hence came the "File Transfer Protocol" (FTP) (1971). Subsequently E-mail became a reality in 1972.

Computers and Communication It was in 1990 that ARPANET was converted into a

public network and opened to all the citizens. The formal birth of Internet was registered, when Internet Society was chartered in 1992. Internet grew rapidly due to its widespread applications and it provided utility and services to the common man in the society. The first requirement was to develop the capability of transferring files and data from one computer to another. For this purpose, a worldwide network of computers had to be established in such a way that any computer anywhere in the world could be connected to any of the millions and billions of computers - like a spiderweb. No wonder then that this Internet infrastructure was christened as World Wide Web (WWW).

Internet 2: Thirty four US research institutions joined hands in 1996 to form the Internet 2 consortium. Meanwhile, US government also introduced a proposal for next generation Internet - a virtual initiative focussed on federal agencies like NASA, Defense, etc. Both the initiatives being complimentary, have the same goal. Internet 2 offers super speed connectivity of 155mbps through fibre optic backbones and network protocols. It is believed to achieve a speed 100-times faster than a typical US University-Lab connections and almost 3000-times faster than dial-up connection. ■

WEB 2.0

Web 2.0 refers to a second generation of services available on the World Wide Web that allow people to collaborate and share information online. Unlike the traditional static Web pages of the first generation, Web 2.0 gives users an experience akin to desktop applications. Web 2.0 applications often use a combination of techniques devised in the late 1990s, including public web service APIs (dating from 1998), Ajax (1998), and web syndication (1997). They often allow for

mass participation (web-based social software). The concept may include blogs and wikis. Web 2.0 was originally created as a marketing phrase. O'Reilly Media and MediaLive International popularised the term as the name for a series of web development conferences that started in October 2004. CMP Media, which purchased MediaLive, claims the term as a service mark for live events, reserving exclusive use of the term for its conferences.

Wireless access

Hi-Fi, means 'wireless fidelity.' It is the popular term for a high-frequency wireless local area network (WLAN) that is generically referred to as 802.11 network, more specifically the 802.11b nomenclature given by the Institute of Electrical and Electronics Engineers (IEEE). It is part of a series of wireless specifications developed by IEEE. It scores over wired LAN with mobility and ease of set-up. Products marked 'Wi-Fi Certified' (a registered trademark) by the Wi-Fi Alliance are interoperable with each other, even if they are from different manufacturers.

Wi-Fi Facts: 802.11 refers to a family of specifications developed by IEEE for wireless LAN. The several wireless specifications are mentioned below:

- 802.11: Applies to wireless LANs and provides 1 or 2 Mbps transmission in the 2.4 GHz band using either frequency-hopped spread spectrum (FHSS) or direct-sequence spread spectrum (DSSS).
- 802.11a: An extension to 802.11 that applies to wireless LANs and works on the 5GHz frequency spectrum at a maximum data transfer rate of 54 Mbps.
- 802.11b: Also referred to as 802.11 High Rate or Wi-Fi, it is an extension to 802.11 in the 2.4 GHz band.
- 802.11g: Offers wireless transmission over relatively short distances at up to 54 Mbps and operates in the 2.4 GHz range.

In India, only the 802.11b standard working on 2.4 GHz frequency range has been delicensed for indoor use. The 5GHz spectrum has not been delicensed for use since it coincides with the spectrum used by the police department.

WiMAX

WiMax stands for 'worldwide inter-operability for microwave access.' The term 'WiMax' is the name created by the WiMax Forum to refer to its definition of 802.16. The WiMAX technology supports data-transmission rates of up to 70 Mbps with a range of up to 48 km, much farther than Wi-Fi. It ensures compatibility between different vendors' fixed-wireless broadband equipment to provide fast wireless data connections between fixed points over long distances. Laptops would incorporate WiMax by 2007.

WiMAX is the 802.16x specification for wireless metropolitan area network (WMAN), developed and promoted by the WiMAX Forum (comprising industry like Intel, Nokia and AT&T), to standardise it universally. The 802.16 specification is the designation offered by the IEEE, the de-facto body to authorise Wi-Fi standards globally. WiMAX will complement Wi-Fi.

The WiMAX signal could be sent as a broadband signal over a large area. The wireless signal would then be connected to a Wi-Fi box that would broadcast the signal to laptops and PDAs.

Bluetooth

Bluetooth technology is a cutting-edge open specification that enables short-range wireless connections between desktop and notebook computers, handhelds, personal digital assistants, mobile phones, camera phones, printers, digital cameras, headsets, keyboards and even a computer mouse. In a nutshell, Bluetooth technology unplugs your digital peripherals and makes cable clutter a thing of the past. ■

What is a blog?

A blog is a web page made up of usually short, frequently updated posts that are arranged chronologically — like a what's new page or a journal. The content and purposes of blogs varies greatly — from links and commentary about other web sites, to news about a company/person/idea, to diaries, photos, poetry, mini-essays, project updates, even fiction.

Blog posts are like instant messages to the web. Many blogs are personal, "what's on my mind" type musings. Others are collaborative efforts based on a specific topic or area of mutual interest. Some blogs are for play. Some are for work. Some are both.

Blogs are also excellent team/department/company/family communication tools. They help small groups communicate in a way that is simpler and easier to follow than email or discussion forums. Use a private blog on an intranet to allow team members to post related links, files, quotes, or commentary. Set up a family blog where relatives can share personal news. A blog can help keep everyone in the loop, promote cohesiveness and group culture, and provide an informal "voice" of a project or department to outsiders.

Types of blogs

There are various types of blogs, and each differs in the way content is delivered or written.

A blog can be defined by its incorporation of media: a blog comprising videos is called a vlog, one comprising links is called a linklog, or one comprising photos is called a photoblog.

Blogs can also be defined by which type of device is used to compose it. A blog written by a mobile device like a mobile phone or PDA is called a moblog.

A blog can also be defined by its genre. For example, if a blog is mainly about politics, it can be called a political blog. A blog about travel could be called a travel blog.

A blog can also be defined by the legal entity of its publishers. A blog can be private, as in most cases, or it can be for business purposes. Blogs, either used internally to enhance the communication and culture in a corporation or externally for marketing, branding or PR purposes are called corporate blogs.

A select list of weblog software:

User-hosted: Software packages installed by weblog authors to run on their own systems: b2evolution; bBlog; Blogosphere; bloxom; Community Server; Drupal; Greymatter; MvBlog; Movable Type (also offered in developer-hosted form as TypePad); Nucleus CMS; Radio UserLand; Roller Weblogger; Serendipity; Textpattern; WordPress (also offered in developer-hosted form as Wordpress.com)

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Protecting mobile phones from viruses

Mobile phones have long outgrown their original purpose of enabling people to talk to each other on the move. They are now multimedia devices which could, in the near future, replace a variety of items like game consoles, messaging terminals, music players, digital cameras, security badges, credit cards, digital diaries, health monitors, alarm clocks, navigation guides, interactive newspapers or even TV.

The good news is that you are not at risk if you have a cell phone that enables you merely to talk and SMS. The problems begin if the phone is enabled to handle data and or has Bluetooth capability.

A cell phone virus is quite like a computer virus. Once you receive and install the virus, it starts looking for other Bluetooth phones to infect.

What virus does? The virus sends infected MMS messages to every phone number in your address list. Since sending MMS messages is not free, you're actually paying money to send a virus to your friends, family members and business associates. The virus can tamper or delete all the contact details and calendar entries in the phone; delete or lock up certain phone applications or crash; show up as games, pornographic material or free downloads; a text messages camouflaged with a stolen the subject line from a friends' message, etc. In all these transfer methods, the user installs it knowingly or otherwise. But clever virus writers have the knack of getting you to open and install the bug by disguising it as a desirable application. Mobile viruses can cause trouble as well as financial losses.

Contact the handset company's toll-free number for any support which provides adequate information and assistance to debug your phone yourself.

Dos and Don'ts : * Enable Bluetooth only when you need it. * Learn to say 'No': If your Bluetooth is on accept only a file that you are expecting. Never accept an unknown file. * Avoid downloading unscanned material from sharing networks: like games, ring tones and other programs from legal or official websites. * Never install any application you are not sure of.

Blu-ray vs HD DVD

A Blu-ray Disc (BD) and HD DVD are next-generation optical disc formats meant for high-density storage of high-definition video and data. The Blu-ray Disc Association's Blu-ray technology is spearheaded by Sony. As of 2006, Blu-ray has information capacity per layer of 25GB. HD DVD is the primary rival to Blu-ray, championed by Toshiba, NEC Corporation, Microsoft, and Intel. HD-DVD has a disc capacity of 30GB.

All movies currently released (as of 2006) have been done on single-layer discs. The goal is to reach the standard of 50GB+ dual-layer discs capable of storing four hours of high-definition MPEG-2 video content—similar to the four hours of high-definition video content. Initially it may be more expensive to produce.

SCIENCE PANORAMA

PART

04

Indian Stealth Technology

India could soon be the third country in the world, after the US and France, to have a stealth bomber fighter aircraft in its armoury. The Kolkata-based Indian Association for Cultivation of Science (IACS) has developed a technology to convert ordinary light combat aircraft into stealth jets that would go undetected on radar.

According to IACS scientists, the technology uses a special material to construct a shield on the plexiglass canopies. It is the glass cover of the cockpit that usually betrays the presence of an aircraft as it reflects the laser beam that is emitted to catch them on the radar. The shield will cover the cockpit and deflect the laser beam on the shield in all directions. This will make sure the aircraft remains undetected on the radar and even to AWACS. IACS' efforts will give a big boost to India's indigenisation efforts.

Last year of the Aibo

Sad news for robot lovers! Sony's Aibo Entertainment Robot, the doglike machine which walks, barks and recognises speech, is being put to sleep.

The Aibo was introduced in 1999 and the company is stopping manufacturing in a bid to improve its financial position. Though not popular in India, the Aibo gained a cult-like following all around the world in a short time. The robot dog could bark, push a ball, lift its leg, and "learn," becoming more adept at behaviour over time. With a vocabulary of 1,000 words and an ability to understand more than 100 words, including some in

Spanish, the Aibo was fitted with a video camera in its head through which images were wirelessly relayed to a laptop. This meant owners could actually see the world from a dog's viewpoint. The only prohibitive thing about the Aibo has been its price as it costs about \$2,000 (Rs 90,000). There are 150,000 Aibo owners worldwide.

No cancer from cellphone

A four-year survey conducted by 10 scientists at the Institute of Cancer Research in London and 3 British universities has found no co-relation between mobile phone usage and glioma cancer. Using a mobile phone does not aggravate the risk of developing this most common type of brain tumour. In 2005, Swedish scientists had reported that cellphones could pose a higher health risk to people living in rural areas. The UK researchers contradict the Swedish findings.

Global Biodiversity Outlook 2

Over the past few decades, human activity in the name of development has adversely affected global biodiversity in an unprecedented way. There is no satisfactory measures to check or reverse it. The latest trend has been brought out by the Global Biodiversity Outlook 2 report of the United Nations Convention on Biological Diversity. The fact that extinction rates for species are shooting up by as much as 1,000 times the background rates, and that 12-52% of species belonging to certain higher groups face the threat of extinction, highlights the role of human activities in the destruction of biodiversity. Also, the ability of biologic

resources to renew themselves to match human demand for resources has been reduced by 20%. If the current extinction rates continue, planet earth will witness the first mass extinction induced by human activity. Against this backdrop, the Convention on Biological Diversity, a global treaty created in 1992 and strengthened by the Conference of Parties in 2002, set 2010 as the target to achieve significant reduction in the current rate of biodiversity loss at all levels. According to the report, the success achieved is far from satisfactory.

Metamaterial

A group of researchers from Britain and US are designing the blueprint of a manmade material, called metamaterial, which they think will be able to bend ray of light so that it does not reflect or cast shadows.

Metamaterial in electromagnetism parlance refers to a special type of material which is generally used in the field of optics and whose properties are not found in natural substances. The first product launched in 2007 will be very thick which people would rather call a shield than a cloak.

John Pendry and his team, Imperial College, London, have created a cloak out of the material. When worn, the cloak will bend light just the way boulder bends a river stream. Another advantage is that the material could be specially tuned to bend electromagnetic radiation like radio waves and visible light or even masking microwaves. The research has numerous military applications.

Climate Change and Algae

It is believed that the nature has the best sensors to detect climate change. Algae is said to be one. All algae use carbon dioxide but, while some lock up this gas in their calcified skeletons, others do not do so.

Other groups of algae produce compounds such as dimethyl sulphonioacetate that can become climatically active. To understand this one need to be able to differentiate the algal types and count them using equipment that is precise and cheap enough that very many can be used. To that end Southampton University, Southern England, and the School of Electronics & Computer Science are developing a sensor which, when dropped into the sea, can record information about the types and quantities of algae present. This provides vital information for specialists in climate change. Algae flow through the device one at a time and at high speed. When the device shines light at the algae, they respond by emitting light at different wavelengths, allowing them to be characterised. The device records data about such properties of algae which tell us about the size of particles and the types of membranes. Algae are now known to influence the climate in various ways. Much of the existing progress made by oceanographers has been based on studying satellite images in colour. The sea can have many different colours and what one sees depends not only on weather and light conditions but also on what plant life the water contains. Colour measurements have become an important tool for studying plant life in the ocean. Calculating chlorophyll from measurements of water colour, is one of the successes of optical oceanography.

New seabed gas source

According to a joint research team from Tokyo University and the Japan Agency for Marine-Earth Science and Technology, a 100 meter-long column of "flammable ice" exists beneath the seabed of the Sea of Japan off Joetsu, Niigata Prefecture.

Flammable ice is methane hydrate, composed of methane and water. Part of

the column is exposed, and judging from its size, the team believes there is a large natural gas field under the seabed. Methane hydrates are available on the seabed in the Gulf of Mexico, off Vancouver, and other places in the world. This is the first discovery of the substance near Japan.

Methane hydrate is created when molecules of flammable methane, the main component of natural gas, are confined in lattice like structures composed of water molecules. As per estimation, there is sufficient flammable ice under the seabed in areas surrounding Japan to supply Japan for 100 years, based on current gas consumption levels. Because of this, methane hydrate is drawing attention as a new natural resource.

X-Ray alternative

How many times have you heard about the negative effects of X-ray radiation on health? Even though the bad effects of radiation has not been conclusively proved, there is an alternative in sight. The terahertz laser! It works like an X-ray by casting through thin layers and identifying what is beneath without putting anyone's health at risk. Currently researchers like Prof. Malcolm Dunn of St. Andrews University, is using less powerful infrared laser integrated with lithium niobate, a material used for optical devices to generate terahertz pulses. Though the terahertz beam is invisible, it can be bounced off gold plated metal mirrors to help in focusing the tuning. The advantages are that the intensity of terahertz radiation is less than that of 1/1000th of a mobile phone; an active terahertz investigation would get one exposed to lesser amount of terahertz radiation as compared to radiation effects from lighting, in the area of dentistry for imaging teeth, security screening and screening of electronics for non-destructive imaging of integrated circuit.

SASER

Lasers, after 40 years of its development and improvisation, are now multi-billion-dollar technology. Now it is the turn of light. SASER or sound amplification by stimulated emission of radiation, are coherent beams of sound that are composed of packets of sonic vibration, called 'phonons.' The Saser, developed by Dr. Glavin, Dr. Kent and their colleagues is constructed from thin layers of semiconductors, an arrangement called a superlattice. This lattice consists of sheets a few atoms thick serving as electron-trap. The Sasers are just like excited photons in laser. In that excited state, when more electrons are added by electrically charging the lattice, phonons beget more phonons, bouncing back and forth between layers of lattice till they flow-out as phonon beams.

Last Human Chromosome sequenced

Scientists have reached a landmark point in one of the most important scientific projects by sequencing the last chromosome in the Human Genome, the so called "book of life." The project was started in 1990 to identify the genes and DNA sequences that provide a blueprint for human beings. The human genome has an estimated 20,000 to 25,000 genes. Chromosome 1 is the biggest and contains, per chromosome, the greatest number of genes. Chromosome 1 contains nearly twice as many genes as the average chromosome and makes up 8% of the human genetic code. It is packed with 3,141 genes and linked to 350 illnesses including cancer, Alzheimer's and Parkinson's disease. The sequencing of the last chromosome, in fact, closes the book on an important volume of Human Genome Project at Sanger Institute in England. The project was headed by Dr. Simon Gregory, Duke University, USA.

Researchers around the world will be able to extract vital information needed for treating cancer, autism, mental disorder, and other illnesses.

The Next Generation Tyres

Radical new tyre design by Michelin was

displayed at the 2006 Philadelphia car show. These tyres are airless - without inflated tube. The flexible rims with special ribs support the wheels. In future no one would require repair kits, no more air valves, and no more air compressors at fuel stations.

Food and Nutrition

Food is the chief of essential materials which the body needs for its well-being. These essential materials are called 'nutrients'. Good food is indispensable for health at all stages of life and for satisfactory growth during infancy, childhood, adolescence and adulthood. Wholesome food in adequate quantities is no less important for pregnant and nursing women since they undergo a severe nutritional stress.

Balanced diet In order to obtain adequate amounts of each of the different nutrients, the daily diet should include appropriate quantities of a variety of different foodstuff. A diet in which various foodstuff are mixed in suitable proportions to carry out adequately.

Eating habits have changed with the times. The changes are faster now. The latest is 'fast food' for a fast life. Human diet is not restricted to any special category of food. Whereas most animals stick to a routine menu, man can and does eat a variety of foods, of both plant and animal origin. Variety is, for him, the spice of life, more so in foods than in anything else. This natural desire for variety is justified by the fact that no single food provides us with all the nutrients that we need.

Cereals, like rice or wheat which form the staple food of mankind, supply us only with a

fraction of our nutritional requirements. We have to supplement cereals with other foods that provide plenty of fats and proteins and minor quantities of a number of vitamins and minerals.

A balanced diet simply means a diet that will supply all the nutrients necessary for the growth and development of the body. In India, a balanced diet has become an imperative since most Indians consume foods that provide more carbohydrates and fats than proteins.

Balanced Diet

Food Group	Food Stuff	Amount per day (g)
I	Rice, wheat and millets	350
	Oil, ghee, butter etc.	35
	Sugar and Jaggery	40
II	Milk, curds etc.	225
	Pulses, dried beans, nuts	45
	Meat, fish, egg	60
III	Fruits	30
	Green leafy vegetables	150
	Other vegetables	125

The table above gives the amounts of the various foods that will make up a balanced diet for the average Indian. The quantity of food varies according to age and the type of work.

Classification of nutrients: (In foodstuffs):
 (1) Carbohydrates, (2) Fats, (3) Proteins, (4) Minerals, (5) Vitamins and (6) Water.

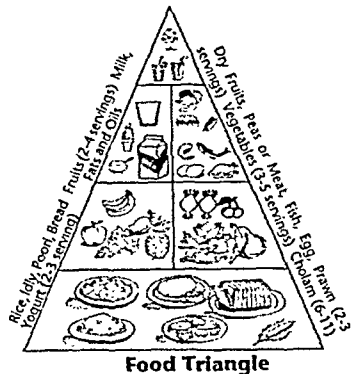
Proteins, fats and carbohydrates are called Macro Nutrients.

Proteins (Greek: 'Proteios' meaning first) are the chief substances of the cells of the body. They form important constituents of muscles and other tissues and vital fluids like blood. Enzymes, which assist in the digestion of food, and antibodies which are the body defences against infections are also mainly protein in nature.

The nutritive value of protein depends on the essential amino acid composition. Amino acids are the building blocks of tissue protein. There are some 20 amino acids commonly found in dietary proteins. Of these, 10 amino acids can be synthesised by the body itself, whether by mutual conversion among amino acids or from nonprotein sources. But 10 amino acids cannot be so synthesised and have to be supplied through diet. These are called essential amino acids. Adults require 8 essential amino acids while children require 9 or 10.

Fat is a necessary ingredient in diet. It is a concentrated source of energy and supplies per unit weight more than double the energy furnished by either protein or carbohydrates. Some fats, especially vegetable oils, provide what are called essential fatty acids, linoleic and arachidonic acids, to the body.

Fats that circulate in the blood are of many types—triglycerides, phospholipids, etc. The quantity and quality of fat consumed affects the level of cholesterol in the blood. Some fats like groundnut oil, sesame oil or sunflower oil which contain a high proportion of polyunsaturated fatty acids do not increase blood cholesterol levels greatly. Others like butter, ghee and hydrogenated vegetable oils (vanaspati) contain high proportions of saturated fatty acids and greatly increase cholesterol levels. It is also found that consumption of smaller amounts of fat at differ-



Food Triangle

ent times causes less increase of cholesterol than a large amount of fat taken at a time.

Carbohydrates include every kind of starch and sugar. Grain foods are largely composed of starch and foodstuffs like cane sugar and glucose are pure carbohydrates. They form the main source of energy for the body. Being a cheap source of energy, carbohydrates form the bulk of Indian diet.

Vitamins and minerals comprise micro nutrients as distinguished from proteins, fats and carbohydrates—called macro nutrients.

Vitamins can be broadly divided into fat-soluble and water-soluble vitamins. Vitamin A, D, E and K are fat-soluble vitamins. Vitamin C and B (including Vitamins B₁, B₂ and other B-Group vitamins) are water-soluble.

The vitamins are necessary auxiliaries in metabolism. They combine with specific proteins, as parts of the various oxidative enzyme systems which are concerned with the breakdown of carbohydrates, proteins and fat in the body. Thus, they are intimately involved in the mechanism which releases energy, carbon dioxide and water as the end products of metabolism. Vitamin types, name and years of discovery are as follows:

Fat soluble

Vitamin A (Retinol) (1913) • Action: Right vision, epithelial function, antioxidant • Defi-

ncy: Night blindness, poor growth, rough skin and less resistance to infection, (xerophthalmia, perifollicular, hyperkeratosis) • Overdosage: Raised intracranial pressure, liver damage, skin changes • Daily dosage: 1 mg; Sources: Animal foods -liver, fish, egg yolk, milk, ghee, cheese, butter and as carotene in dark green leafy vegetables carrot, pumpkin, papaya, mangoes, Red palm oil.

Vitamin D (1925) • Action: VitaminD₂, Calcium, VitaminD₃ Metabolism • Deficiency: Rickets in children, osteomalacia and osteoporosis in adults • Overdosage: Hypercalcaemia • Daily dosage: 3mcg; Sources: Exposure to sun light, milk, butter, cheese, egg yolk, fish liver oils.

Vitamin E (Tocopherols) (1936) • Action: Aid cell function, antioxidant • Deficiency: Mild haemolytic neuropathy in children, thought to interfere with reproduction, liver damage, abortion, haemorrhage • Daily dosage: 10mg; Sources: All vegetable oils, wheat germ, egg yolk, butter, peas.

Vitamin K (1935) • Action: Synthesis of clotting factors (II, VII, IX, X) • Deficiency: Bleeding, liver damage, increased tendency to haemorrhage • Daily dosage: 100mcg; Sources: Green leafy vegetables, liver, pulses, also synthesised by colonic bacteria.

Water Soluble

Vitamin B₁ (Thiamine) (1936) • Action: Carbohydrate metabolism • Deficiency: Beri-beri, peripheral neuropathy, Wernicke-Korsakoff syndrome • Daily dosage: 1mg; Sources: Cereals, sprouts, green leafy vegetables, liver, pork, legumes.

Vitamin B₂ (Riboflavin) (1935) • Action: Cellular oxidation • Deficiency: Angular stomatitis, cheilosis • Daily dosage: 1.5mg; Sources: Liver, meat, eggs, kidney, milk and other dairy products, green leafy vegetables, sprouted cereals and pulses.

Nicotinic Acid / Nicotinamide • Action: Cellular oxidation decarboxylation • Defi-

ciency: Pellagra • Overdosage: Flushing • Daily dosage: 15-20mg; Sources: Liver, pulses, whole cereals, fish, meat, milk, eggs, groundnut, coffee.

Vitamin B₆ Pyridoxine (1934) • Action: Transamination • Deficiency: Peripheral neuropathy • Daily dosage: 3mg; Sources: Yeast, liver, meat, whole grain, cereals, groundnuts, banana, legumes.

Folic-acid (Folate) • Action: Haemopoiesis • Deficiency: Megaloblastic anaemia • Daily dosage: 200mcg; Sources: Yeast, liver, nuts, green vegetables, chocolate.

Vitamin B₁₂ (Corbalaamin) (1948) • Action: Haemopoiesis • Deficiency: Megaloblastic anaemia subacute combined degeneration of the spinal cord • Daily dosage: 3mcg; Sources: Meat, liver, egg, dairy products, yeast.

Vitamin C (Ascorbic) (1919) • Action: Collagen synthesis antioxidant • Deficiency: Scurvy, sore mouth and gums, delayed healing, capillary bleeding • Overdosage: Raised urinary oxalate and urate • Daily dosage: 30-60mg; Sources: Citrus fruits, green leafy vegetables, germinated pulses.

Vitamin P is found in all sources of Vitamin C like orange, lemons, etc.

Other vitamins in the B complex include: Nicotinic acid, Pantothenic acid, Folic acid, Biotin, Lipoic acid, Choline and Inositol

A large number of minerals are present in the body and perform a variety of functions. Minerals account for about 4 % of the body weight. Calcium and phosphorus form about three-fourths of the mineral elements. Five other minerals—potassium, sulphur, sodium, chlorine and magnesium—account for most of the rest. Many elements are present in such minute quantities that they are called trace elements or micro-nutrients.

Water is a vital constituent of diet. An average man contains about 45 litres of water (70 % of the body weight). The cells contain 30 litres. Three litres are in the plasma of the blood, where the suspended cells make a

total volume of blood up to 5 litres. The remaining 12 litres (45-33) fill the space between groups of cells. This tissue fluid bathes all the cells of the body. Water is absolutely necessary for digestion and absorption of the foods taken in. It is the great solvent and neutraliser in the body. It is the substance in which bodily chemical reactions take place. Water is the carrier or transporting medium for all nutrients and body substances. It regulates body temperature, keeps skin fresh, and acts as great purifying agent in the body that removes waste materials in the form of tear, perspiration, urine and faeces. Watery substances act as lubricants in the body, especially in the joints. It is a part of all body tissues and fluids.

Acidosis, alkalosis and dehydration, pedema, fever, shock, uraemia and constipation are some of the clinical signs of inadequate salt and water in the body.

The body obtains water mainly from the fluids we drink, from the solids we eat and also from the oxidation of energy foods. Fats and carbohydrates are oxidised in the body to carbon dioxide and water.

Cereals like rice, wheat and millets, ragi, cholam and bajra form the main food in India. Cereals are rich in carbohydrates. They generally contain 6 to 12% protein, but these proteins are usually deficient in the essential amino acid lysine. Rice protein, however, is richer in lysine than other cereals. Most cereal grains are poor in mineral content and rice is especially poor. Ragi is, however, rich in minerals, especially in calcium, and bajra in iron. Whole cereal grains are important sources of B-vitamins but in milling, rice loses the outer layers containing thiamine. Parboiled rice, even when milled, does not lose its thiamine content. Except yellow maize, which contains some amounts of carotene, no other cereal grain is a source of vitamin A or C.

Pulses or legumes as they are called, are rich in proteins. Pulse proteins are of relatively low

biological value because of the deficiency of the essential amino acid methionine but they are rich in lysine. Pulses are not rich sources of minerals but they are rich in B-vitamins. Dried pulses do not contain vitamin C but if they are germinated significant amounts of vitamin C are generated. Most of the green leafy vegetables are rich sources of calcium, iron, carotene, vitamin C, riboflavin and folic acid.

Fibre: The portion of plant foods that our bodies cannot digest is known as fibre. There are 2 basic types : insoluble (roughage) and soluble. Insoluble fibres help move food materials through the digestive tract while soluble fibres tend to slow them down. Both types absorb water, thus prevent and treat constipation by softening and increasing bulk of the undigested food components passing through the digestive tract. Soluble fibres are reported to be helpful in reducing blood cholesterol. Fibre is recommended for all age groups: men 40-50 gms/day, women 25, and old 20-30. Source: beans, bran, fruits, whole grain and vegetables.

Roots and tubers: are rich in carbohydrates. But roots like carrot are also rich in carotene (Vitamin A); Those like potato contain significant amounts of vitamin C, while roots like tapioca contain calcium also. Other vegetables are those which do not fall into the category of leafy vegetables or root vegetables. These vegetables are shoots, like lady's finger, cucumber, tomato, bitter melon, snake melon, brinjal, etc. They are fairly good sources of vitamins and minerals.

Nuts and oil seeds are good sources of fat (oil), protein and minerals and fair sources of vitamins: e.g. groundnut and cashewnut.

Fruits in general are rich in vitamin C, such as gooseberry, guava and citrus fruits. Yellow fruits like mango and papaya contain carotene and dried fruits like dates are sources of iron.

Fish and sea foods are rich sources of protein, B-vitamins and minerals, esp. calcium. Fleshy foods are rich sources of protein

and B-vitamins, especially B₁₂. They are generally deficient in vitamin A, but liver is an exception.

Egg is a rich source of all nutrients except vitamin C. Its protein is of high quality.

Milk and Milk products. Milk is an ideal food for infants and young children and a good supplementary food for all. It contains all vital nutrients, except vitamin C and iron.

Food is the only source of energy for humans. Our dietary sheet must change accordingly to our requirements of energy and meals planned. Food energy is measured in terms of heat units called calories. A physiological calorie, also called large calorie or

kilocalorie (abbreviated as Kcal), is the amount of heat necessary to raise the temperature of one kilogram of water by one degree centigrade. One gram of protein or carbohydrate yields 4 calories. One gram of fat yields 9 calories while the same quantity of alcohol yields 7 calories.

Foodstuff by category

Food Group-1: (a) CEREALS (b) STARCHY VEGETABLES (c) FATS AND OILS (d) SUGAR: jaggery, cane-sugar etc.

Food Group-2: (a) MILK (b) PULSES

Food Group-3: (a) FRUITS (b) Green LEAFY VEGETABLES . (c) Other VEGETABLES

Eat less, live longer

Dieting may not actually make you live longer, but it surely makes you feel that way. Nevertheless, evidence has been accumulating since the 1930s that calorie restriction—reducing an animal's energy intake below its energy expenditure—extends lifespan and delays the onset of age-related diseases in rats, dogs, fish and monkeys. Such results have inspired thousands of people to live up with constant hunger in the hope of living longer, healthier lives. They have also led to a search for drugs that mimic the effects of calorie restriction without the pain of going on an actual diet.

It is easy, amidst the hype, to forget that no one has until now shown that calorie restriction works in humans. That omission, however, changed with the publication of the initial results of the first systematic investigation into the matter. This study, known as CALERIE (Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy), sponsored by America's National Institutes of Health, took 48 men and women aged between 25 and 50 and assigned them randomly to either a control

group or a calorie-restriction regime. Those in the second group were required to cut their calorie intake for six months to 75% of that needed to maintain their weight. The CALERIE study is a landmark in the history of the field, because its subjects were either of normal weight or only slightly overweight. At a molecular level, CALERIE suggests these advantages are real. They showed drops in body temperature and blood-insulin levels—both phenomena that have been seen in long-lived, calorie-restricted animals. They also suffered less oxidative damage to their DNA.

The search for a drug that will stave off old age is itself very old. Scientists are trying to find a drug that will mimic the effect of calorie restriction. There is a family of enzymes called *sirtuins*, which act both as sensors of nutrient availability and as regulators of metabolic rate. These might provide the necessary biochemical link between starving and living longer. Some plant-derived molecules are known to activate sirtuins in yeast. One of these molecules, resveratrol, has increased the maximum lifespan of a small fish by 65%. However, some of these molecules are already in clinical trials for safety.

Managing free radicals

Research has now proved that oxidation in the body cells (the process by which we are continuously burning our calories to get energy) releases dangerous, very active molecules known as free radicals. These free radicals attack neighbouring cells (the cell walls, and genetic material-DNA, within the cells) and over a long time period, can cause irreversible damage like mutation and sometimes cause disease like cancer. Generally it manifests old age symptoms like lack of energy, poor memory, loss of hearing and falling hair, which are definitely associated with damaged or weak cells. Free radicals, in alcoholics, cause alcohol-induced liver damage, perhaps more than alcohol itself. Free radicals in cigarette smoke have been implicated in inactivation of alpha-1 antitrypsin in the lung, which promotes the development of emphysema and it is now proved that these free radicals are the main culprit. While nature has created this problem, it has provided the solution as well.

The presence of compounds, called Antioxidants, in the system can "mop up" free radicals before they damage other essential molecules. An antioxidant is a chemical that prevents the oxidation of other chemicals. Consuming more antioxidants helps provide the body with tools to neutralise harmful free radicals. It's estimated that there are more than 4,000 compounds in foods that act as antioxidants. The most studied include vitamins C and E, betacarotene and the mineral selenium. Besides antioxidants, there are several enzyme systems within the body that scavenge free radicals. Additionally, selenium, a trace metal that is required for proper function of one of the body's antioxidant enzyme systems, is sometimes included in this

category. The body cannot manufacture these micronutrients so they must be supplied in the diet. The following vitamins have shown positive antioxidant effects: Vitamin A or Retinol, or beta-carotene found in carrots, squash, sweet potatoes, tomatoes, peaches and apricots are particularly rich sources of beta-carotene; Vitamin C also called ascorbic acid found in citrus fruits, green peppers, green leafy vegetables, strawberries, raw cabbage, tomatoes and potatoes; Vitamin E is found in wheat germ, nuts, seeds, whole grains, green leafy vegetables, vegetable oil and fish-liver oil; and selenium found in fish, shellfish, red meat, grains, eggs, chicken and garlic. Vegetables can also be a good source if grown in selenium-rich soils.

Natural Sources of Antioxidants

The colourful stuff: carrots, apples, oranges, tomatoes (cooked), beet root, brinjal, dark green vegetables, olives, strawberries, honey (the darker the better) and so on.

The tasty stuff: garlic, ginger, onion, nutmeg

The smelly stuff: Tea, green tea, spinach, tulsi and other herbs etc. Usually, the body's natural defence systems neutralise free radicals that develop, rendering them harmless. However, environmental assaults on the body, like UV-radiation, pollutants and alcohol, can overpower the body's ability to neutralise free radicals, damage the structure and function of the body's cells. There is good evidence that this damage contributes to aging and leads to a host of illnesses, including cancer, arthritis, and heart disease. A regular exercise and eating more fruits or vegetables will vitalise inherent antioxidant systems and that your diet is providing the necessary components.

Human Body

The human body is a very complicated system consisting of millions of cells-organised uniquely and functioning dynamically together. The complexities can be better understood when it is highlighted. Anatomists find it useful to divide the human body into eight systems: the skeleton, the muscles, the circulatory and respiratory systems, the digestive system, the urinary system, the glandular system, the nervous system, and the skin.

Body Statistics

The body: has about 6.096 metres of small intestine and six of large, with a surface area of more than 9.29 sqm, or five times the area of the body's skin. The intestines process, at about 2.54 cm per minute, 40.64 metric tonnes of food over the course of 70 years.

Skin: 2.72 kg of skin cover the 1.85 sq.m of surface on an average adult.

DNA: Deoxyribonucleic acid, a nucleic acid, is the vital constituent of chromosomes, responsible for transmitting genetic information, in the form of genes, from parents to offsprings. Each human cell contains about 2 metres of DNA supercoiled on itself such that it fits within the cell nucleus less than 10 micrometers. DNA comprise 4 bases adenine-A, guanine-G, thymine-T, and cytosine-C, a sugar and phosphoric acid, organised in a double helix format. Within this format, A pairs only with T, and G only with C.

Bones in the body: Babies are born with over 300 bones. Many of them fuse together as we grow up - and we end up with about 206. The longest bone: The 'femur' or the thigh bone (1/4 of your height). The smallest

bone: The stapes or the stirrup-bone in the middle ear - few millimetres. The strongest bone: The shin bone, which connects the knee to the ankle. It can support 1,600 kg. More than half of an adult's 206 bones are in the hands and feet. There are 27 bones in each hand and 26 in each foot- for a total of 106.

Composition of Bones: Organic Matter 33.30%; Phosphate of Lime 51.04%; Carbonate of Lime 11.30%; Fluoride of Calcium 2.00%; Phosphate of Magnesia 1.16%; Soda/Chloride of Sodium 1.00%.

Human Brain: Consists of two parts: the brain located in the skull and the spinal cord located in the vertebral column.

Central Nervous System: The brain along with spinal cord constitutes the Nervous system. The brain consists of

(i) *Cerebrum*: The largest part of the brain consisting of two hemispheres which control voluntary actions and are the seat of intelligence, memory association, imagination and will. (ii) *Cerebellum*: The large mass having ridges and furrows attached to, cerebrum, which regulates muscular movement of locomotion. (iii) *Medula Oblongata*: The lowermost part of the brain which continues as the spinal cord in the vertebral columns. It controls involuntary actions.

The weight of the average human brain triples between birth and adulthood. The final weight of the brain in an adult male is about 1.4 kg (and 1.3 kg in the case of a woman) which averages about 3% of the body weight.

The brain uses about 20% of the oxygen a man breathes, 20% of calories a man takes in, and about 15% of body blood.

The brain stores information equal to 500,000 sets of the Encyclopedia Britannica. Given its compact size, efficient power consumption (equivalent to a 20-watt lightbulb) and massive storage capacity (100 trillion bits of information) it can work better than any computer. At a time our brain can retain 7 facts in the short-term memory. *Neurons* are the longest cells in our body- measures 1.2m long. Fully formed human brain contains 100 billion neurons, or nerve cells. When neuron fires off a message, it is received in one of the thousands of receptor sites in another neuron, which stops it or sends it on. Brain makes up only 2% of the body weight but uses 20% of the oxygen and blood supply.

Nerves 72.418km of nerves send impulses as rapidly as 360 km per hour. The fastest nerve impulse travels at 532 Kmph.

The heart 27949.3 litres of blood are pumped through 99,776.6 km of blood vessels in a day. The hollow muscle pumps enough blood in an average lifetime to fill the fuel tanks of 56 moon rockets. Unlike other muscles, its contractions are involuntary, beginning 4 weeks after conception, before nerve cells are formed, and continue to pulse even out of body in saline solution. Muscle cells called myocytes generate a total electrical current of about 2 watts that commands the fibres to contract. Shortly after birth, those cells stop dividing.

The Blood There are about 96,000 km of blood vessels in our body. The Blood comprise Plasma, RBC (red blood cells/erythrocytes), WBC (white Blood Cells/leukocytes) and Platelets (Thrombocytes).

Plasma is made up of 90% water, 7% proteins, and others like nutrients, salts, nitrogen waste, carbon-dioxide and hormones.

8,000,000 RBCs are produced in the bone marrow every second constituting 54% of hemoglobin and their count ranges between 4-6 million per cu mm.

WBC count normally ranges between 4,500 to 11,000 per cu mm

Platelets also normally count between 15,000 and 300,000 per cu mm

The lungs Man breaths 13- 17 times a minute at rest and 80 during exercise. On an average we breath 21600 times a day. We take in 295.261m litres in an average life span. The shock of birth causes the first breath. Muscle contract, opening the chest and lowering interior air pressure. The baby's mouth opens in protest, air rushes in, and the newborn begins to inhale about 60 times a minute, beginning the cycle of strife and breath. The adult human lungs have an internal area of 93 m², which is 40 times the external surface of the human body.

The liver Among some 1000 widely divergent functions, the liver regulates hormonal balance, cholesterol, blood clotting and poisons. The liver is the only organ that can regenerate; if as much as two thirds is removed, a whole liver can grow back.

The alimentary system is a 9.14 metre-long tube from mouth to anus that breaks down food into particles tiny enough to pass from intestines into the bloodstream. The nutrients are then routed to the largest gland in the body, the 1.36 kg liver, to be refined into chemical and warehoused until demand soars. Large intestine= 1.524m Small Intestine= 7.5m

Stomach: produces 2 litres of hydrochloric acid daily. 500,000 cells of stomach's inner walls are replaced every minute so that the acid does not damage the walls.

Muscles: There are 639 muscles which also account for 40% of the total body weight. The total number of muscles in the body: over 630. It takes 17 muscles to smile and 42 to stare. Largest muscle: The gluteus maximus or the buttock muscle. The smallest muscle: The stapadius muscle which controls the stapes.

The reproductive organs: A man's testes manufacture more sperm per second (about 2000) than a woman's ovaries produce eggs in a life time (about 400).

pipe (trachea) and two tubes called bronchi, to the lungs. Oxygen from the air is taken in by tiny blood vessels in the lungs. The blood then carries oxygen to the cells of the body.

Skeletal System: The skeletal system is made up of bones that hold your body upright. Some bones protect organs, like the ribs that cover the lungs.

Muscular System: Muscles are made up of elastic fibres. There are 3 types of muscle: skeletal, smooth and cardiac. The skeletal muscles help the body move. They are large muscles visible to our eyes. Smooth muscles are found in our digestive system, blood vessels, and air passages. Cardiac muscle is found only in our heart. Smooth and Cardiac muscles are involuntary muscles - they do their job without us having to think about them.

Reproductive System: Through the reproductive system, adult human beings procreate. Reproduction begins when sperm cell from man fertilises an egg cell from a woman.

Urinary System: This system includes kidneys, which cleans waste from the blood and regulates the water in the body.

Immune System: The Immune System protects our body from diseases by fighting against certain substances that come from outside, or antigens. This happens in different ways. For example, WBC called B lymphocytes learn to fight certain viruses and bacteria by producing antibodies, which spread around the body to attack them. Sometimes

as in allergies, the immune system makes a mistake and creates antibodies to fight a substance that's really harmless.

Glands of the Human Body

Glands are organs of the human body that manufacture some liquid products which are secreted from the cells. There are two types of glands: (i) **Ducted Glands** Ducted glands secrete their product through well-defined ducts, e.g., *Liver*—secretes bile in the stomach; *Lachrymal*—secretes tears in the eyes; *Salivary*—secretes saliva in the mouth; *Sweat glands* in the skin—secretes sweat. (ii) **Ductless Glands** Also called *endocrine* glands or internally secreting glands. They secrete hormones directly into the blood-stream in response to brain's instructions. **Ductless glands and their functions:** *Thymus*: In early childhood it plays some part in building resistance to diseases and physical development; *Thyroid*: Regulates metabolism

Prostate: Regulates blood pressure and sexual potency; *Gonads* : Relates to reproductive system and secretes sex hormones; *Adrenal*: Causes acceleration of the breath, heightens emotion and a sudden increase in physical strength during fear or anger; *Pancreas*: Aids in digestion of proteins, carbohydrates and fats; it secretes insulin and deficiency of insulin causes diabetes; *Pituitary*: Called the master gland as it controls the other ductless glands and influences growth and metabolism.

Ready-to-eat fruit

We are health conscious but poor in keeping with time. Grab a pack of packaged ready-to-eat fruit and your body will be none the wiser.

That's the message from new international research showing that chilled, ready-to-eat, fresh-cut fruit retains

high levels of vitamin C and other antioxidants.

According to a science report in the *Journal of Agricultural and Food Chemistry*, cutting and packaging fruit has almost no effect on the main antioxidants. In fact, levels of some antioxidants increased in selected chilled fruits.

Human Disease

A disease is a condition that impairs the proper function of the body or of one of its parts. Every living thing, both plants and animals, can succumb to disease. Hundreds of different diseases exist. Each has its own particular set of symptoms and signs, clues that enable a physician to diagnose the problem. A symptom is something a patient can detect, such as fever, bleeding, or pain. A sign is something a doctor can detect, such as a swollen blood vessel or an enlarged internal body organ. Every disease has a cause, although the causes of some remain to be discovered. Every disease also displays a cycle of onset, or beginning, course, or time span of affliction, and end, when it disappears or it partially disables or kills its victim. An epidemic disease is one that strikes many persons in a community. When it strikes the same region year after year it is an endemic disease. An acute disease has a quick onset and runs a short course. A chronic disease has a slow onset and runs a sometimes years-long course. The gradual onset and long course of rheumatic fever makes it a chronic ailment.

Kinds of Disease

Infectious (communicable) diseases are those that can be passed between persons such as by means of airborne droplets from a cough or sneeze. Tiny organisms such as viruses, bacteria, fungi and worms can produce infectious diseases. Whatever the causative agent, it survives in the person it infects and is passed on to another. Sometimes, a disease-producing organism gets into a person who shows no symptoms of the disease. The asymptomatic carrier can then pass the

disease on to someone else without even knowing he has it.

Non-infectious (non-communicable) diseases are caused by malfunctions of the body. These include organ or tissue degeneration, erratic cell growth, and faulty blood formation and flow. Also included are disturbances of the stomach and intestine, the endocrine system, and the urinary and reproductive systems. Some diseases can be caused by diet deficiencies, lapses in the body's defense system, or a poorly operating nervous system.

Deficiency diseases: due to deficiency in the diet of nutrients. They can generally be cured by providing the missing nutrients.

(a) *Protein deficiency* causes two major diseases Kwashiorkor and Marasmus.

(b) *Mineral deficiency* causes specific diseases. (i) *Anaemia: Iron deficiency* causes haemoglobin deficiency in blood. (ii) *Goitre: Iodine deficiency* causing no synthesis of thyroxine hormone of thyroid gland). (iii) *Hypokalemia: potassium deficiency*. (iv) *Hyponatremia: sodium deficiency* causes this state of low blood pressure and loss of body weight.

(c) *Vitamin deficiency* causes a variety of diseases. (i) *Night Blindness: (Vitamin A)*. (ii) *Xerophthalmia: (dryness of eye due to lack of Vitamin A)*. (iii) *Dermatosis: (Vitamin A)*. (iv) *Beri-beri: (Vitamin B-thiamine)*. (v) *Ariboflavinosis: (Vitamin B₂- riboflavin)*. (vi) *Pellagra: (nicotinic acid/ niacin-part of B complex group)*. (vii) *Pernicious Anaemia: (Vitamin B₁₂-Cobalamin)*. (viii) *Scurvy: (Vitamin C - ascorbic acid)*. (ix) *Rickets: (a disease causing disorder of calcium and phosphorus metabolism due to Vitamin D deficiency, often found*

in the early childhood: 6 months and 2 years.

(x) Osteomalacia: (Vitamin D).

Infectious diseases are caused by various agents such as virus, bacteria, fungi and protozoa. (a) Diseases caused by Bacteria: Cholera, Diphtheria, Tuberculosis, Leprosy, Tetanus, Typhoid, Plague, Whooping Cough, Sore Throat, Pneumonia, Bacillary dysentery, Gonorrhea, Syphilis and Botulism. (b) Diseases caused by Viruses: Chickenpox, Measles, Poliomyelitis, Rabies, Mumps, Influenza, Hepatitis, Herpes, Viral Encephalitis and AIDS. (c) Diseases caused by Fungi: Ringworm, Athlete's foot, Dhobie itch. (d) Diseases caused by protozoans: Amoebiasis, Malaria, Sleeping sickness, Kala-azar, Diarrhoea, (e) Diseases caused by Helminthes or Worms: Filaria, Tape-worm and Hookworm transmission.

Degenerative diseases occur due to malfunctioning of some organ or organ system in the body. They are: Heart Attack, Diabetes mellitus, Arthritis.

Sexually Transmitted Diseases (STD)

Disease	Causative organism
Gonorrhoea	Neisseria gonorrhoeae
Syphilis	Treponema pallidum
Chancroid	Haemophilus ducreyi
Granuloma inguinale	Donovania granulomatis
Trichomoniasis	Trichomonas vaginalis
Candidiasis	Candida albicans
Chlamydiasis	Chlamydia trachomatis
H.V. Vaginitis	Haemophilus vaginalis
Genital herpes	hominis type II (HSV II)
Condyloma acuminatum	Papova group virus
Scabies	Sarcoptes scabiei
Pediculosis pubis	Phthirus pubis

Bacterial Diseases

Disease	Causative agent
Typhoid	Salmonella typhosa
Tetanus	Clostridium tetani

Cholera	Vibrio cholerae
Syphilis	Treponema pallidum
Pneumonia	Diplococcus pneumoniae
Gonorrhoea	Neisseria gonorrhoeae
Leprosy	Mycobacterium leprae
Plague	Mycobacterium tuberculosis
Whooping cough	Bordetella pertussis
Meningitis	Meningococcus
Diphtheria	Corynebacterium diphtheriae

Viral Diseases

Disease and causative agent: *Acquired Immune Deficiency Syndrome (AIDS)*: Human immunodeficiency virus (HIV)

Chicken pox: Varicella herpes virus; *Influenza*: Orthomyxovirus; *Measles (Rubeola)*: Paramyxovirus; *Mumps*: Paramyxovirus; *German Measles*: Togavirus; *Poliomyelitis*: Enterovirus; *Rabies*: Rabdovirus.

Disease of Eye

Name of disease and symptoms: *Astigmatism*: Visual activity is decreased, eye strain causes headache, cylindrical lens should be used.

Cataract: Normal vision is hampered, blindness may be caused. Lens is removed and artificial lens is used.

Glaucoma: Aqueous humour pressure increases. It may cause blindness.

Hypermetropia (far sightedness): Distant objects can be seen clearly, near objects can't be seen clearly. Image formed behind retina. Biconvex lens should be used.

Strabismus (Squint): Eye ball turns to any of the sides.

Trachoma: Redness in the eye, sensation for foreign body in eye.

Cancer

Cancer is a general term used to describe over 200 individual diseases. These diseases progress differently over a period of time but share certain characteristics that include development within any tissue of a malignant

growth derived from abnormalities of the host. The abnormal cells grow without any control, invade through normal tissue barriers, spread to local and distant sites within the host, and reproduce indefinitely.

Sometimes, cancer cells do not remain confined to one part of the body and penetrate and infiltrate into the adjoining tissues and dislocate their functions. Some of the cancer cells get detached from the main site of origin and travel by blood and lymph to sites distant from the original tumour and form fresh colonies, called metastasis or secondary growth. Cell which undergo rapid, abnormal and uncontrolled growth are called neoplastic cells. The growth resulting from the division of such cells are called as neoplastic growth or tumours.

Tumours are commonly classified as: (i) Benign tumours : Abnormal and persistent cell division that remains localised at the spot of origin results in the benign tumours. In some cases it can be fatal. (ii) Malignant Tumour : It first grows slowly and this state is called the latent state. The tumour later grows quickly. The cancer cells go beyond adjacent tissue and enter the blood and lymph. Once this happens, they migrate to many other sites in the body where the cancer cells continue to divide. It is metastasis.

The masses of such abnormal cells formed and spread in this way lead to the death of the host if not eradicated. The incidence of cancer is rising steadily.

Diagnosis: The diagnosis of cancer is required to be confirmed either by a histopathological examination of a biopsy of fine needle aspiration cytology, firstly, to determine the extent of tumour and secondly to determine whether the tumour has metastasized to other sites. Using blood tests, x-ray studies, radio-nuclide scans, C.T. Scans and M.R.I. Scans, the cancer is staged according to staging systems—the T.N.M. system being widely used.

Treatment: Cancer treatment consists of

Father of Chemotherapy

Paul Ehrlich was born on March 14, 1854, in a respected Jewish distiller's household, in Germany. Ehrlich studied medicine at the Universities of Breslau, Strasbourg, and he graduated from Leipzig, in 1878. While still a student, he began investigations on the aniline dyes used in the distillery. With its aid, he discovered all the different types of white blood corpuscles.

Ehrlich always had the idea of creating substances that would exert their full action exclusively on the parasite harboured within the organism like 'magic bullets' which seek their target of their own accord. In April 1910, Ehrlich announced before the Congress for Internal Medicine at Wiesbaden, that a synthetic arsenical compound, which he named 'salvarsan' had shown curative properties in rabbit syphilis and also in clinical trials. It was first used in the treatment of human syphilis in 1911. Thus the science of chemotherapy was born.

In 1914, as a professor in the University of Frankfurt, Ehrlich explored the acidity of living tissues for certain dyes. In a remarkable monograph (1885), he reported his investigations into the distribution of oxygen in animal tissues and organs. Using two vital staining dyes, alizarin blue and indophenols blue, he demonstrated that while living protoplasm in general has potent reducing properties, bodily organs are classifiable according to their oxygen acidity. He enunciated the fundamental concept underlying his work: chemical affinities govern all biological processes.

surgery, radiation therapy and systemic therapy using chemotherapy and hormones. These modalities may be used either singly or in combination. Developments and advances in imaging, coupled with better understanding and knowledge of the natural history of various cancers have led to the era of multimodality therapy which has changed the cancer treatment scenario.

Epidemiology. Estimates show that the number of new cancer cases in India is about 1,000,000 per year. The most common form of cancers seen in the males include cancers of the lung, stomach, oesophagus, mouth, larynx, hypopharynx, tongue, prostate, urinary bladder and body uterus.

In females, traditionally cancer of the cervix was the leading cancer, but of late, especially in the urban areas, cancer of the breast seems to be becoming a major problem. Cancers of the mouth are commonly seen in both the males and the females. Cancers of the larynx, hypopharynx, oesophagus and stomach are seen more in men than in females, while cancer of the gall bladder is seen more often in women.

Breast Cancer is becoming a common disease all over the world. It occurs to women and men. But women are more vulnerable to it. The risk of Breast Cancer increases with aging in women. The risk is also higher for women with a personal or family history; a long menstrual history; recent use of oral contraceptive or postmenopausal hormone replacement therapy; and no children or no live birth until age 30 or older. Other risk factors include alcohol consumption and obesity. Inherited mutations such as in the BRCA1 and BRCA2 genes greatly increase a woman's risk for Breast Cancer, but genetic factors account only for the 10% of the affected.

Physical symptoms include a breast lump and less commonly breast thickening, swelling, distortion or tenderness; skin irritation or

dimpling; or pain, scaliness, or retraction of nipple. Breast pain is more commonly associated with benign conditions. The treatment include lumpectomy, mastectomy, radiation therapy, chemotherapy, hormone therapy, immunotherapy, or some combination of these. Various drugs are also available now a days. Early detection gives lot more chance of survival.

AIDS

The Acquired Immuno Deficiency Syndrome (AIDS) is caused by Human Immuno Deficiency Virus (HIV) which attacks human immune system, esp. lymphocytes. HIV is transmitted through blood and blood products, seminal and vaginal fluids, unprotected sex, infected blood transfusion, contaminated needles, artificial insemination, child birth to infected parents, etc. It however, does not spread by kissing, coughing, mosquito bites, food, water, working together, etc. Symptoms could be rapid weight loss, chronic diarrhoea, prolonged fever, persistent cough, herpes zoster infection, etc.

Tests like Enzyme Linked Immuno Sorbent Assay or ELISA kit, Particle Agglutination Test (PAT), Immuno Fluorescent Assay (IFA), Radio Immuno Precipitation Assay (RIPA), HIV test, etc. are used to detect cases. In India, there are about 5.3 m infected people. Maharashtra, Manipur, and Tamil Nadu have comparatively more number of cases.

SCID

(Severe Combined Immune Deficiency): It is a congenital immunodeficiency disorder in which lymphocytes are not formed and the patient dies of even minor infection. Such children can survive only in germ free isolation chambers.

Osteoporosis

Osteoporosis, literally meaning 'porous bones, constitute the hardest part of the human body. According to experts, os-

osteoporosis is just not calcium deficiency. It is a combination of the loss of the organic matter in the bone, which gives it elasticity, and the inorganic matter, made up of substances such as calcium and phosphorus, which gives it strength. In the early stages osteoporosis is painless and hence it is often called the "silent disease". Since the genetic make-up is the main factor behind the disease, some people are more likely to develop osteoporosis than others. Over 300 million people suffer from osteoporosis in India without realising that every osteoporosis-related bone fracture doubles the risk of death.

What causes osteoporosis? Calcium plays an important role in transmitting signals to nerves and muscles and is therefore important in regulating the heart rate, muscle contractions, blood pressure and other bodily functions. To keep these functions regulated, the calcium in the blood must be maintained at a certain level. When it drops to a very low level, the body replenishes it with calcium from the bone - a living and growing tissue composed of a network of collagen fibres inlaid with calcium and phosphate. 'Resorption', the process of releasing calcium from bones into the blood, results in the breakdown of bones. By another process called 'formation', the bones get rebuilt. Together, the processes constitute bone remodelling. The continuous remodelling cycle serves to supply the body with the calcium it needs and maintains the skeletal structure and strengthens it by replacing old bones with new ones. When formation exceeds resorption, the bone mass increases. When resorption increases, it results in loss of bone mass. Continued excessive bone loss leads to osteoporosis. Bone fracture is the biggest risk for osteoporosis patients. Any bone can be affected, but the most serious ones are fractures of the hip and the spine.

In India, the incidence is higher - one in four women and one in eight men get os-

teoporosis before the age of 50. More women die of osteoporosis fractures than of breast and ovarian cancers put together. Unfortunately, osteoporosis shows no symptom and is often diagnosed only after a fracture, by which time the patient may have suffered considerable bone loss.

Hepatitis

Hepatitis is caused by virus. These viruses are of six types, called A, B, C, D, E and G respectively. Out of these, the A and E types are found in water. All other are transmitted through blood. In India, the B and C types of viruses are prominent.

TB Epidemic

India accounts for about 33% of the global burden of tuberculosis. The disease is one of India's most important public health problems. Every day in India more than 20,000 people become infected with the tubercle bacillus, more than 5,000 develop the disease, and over 1000 die from TB. In India, tuberculosis kills 14 times more people than all tropical diseases combined, 21 times more than malaria, and 400 times more than leprosy. Every year, nearly 20 lakh people develop tuberculosis in India, nearly one million of them highly infectious sputum - positive cases. Two such cases develop every minute.

Every sputum-positive patient can infect 10-15 individuals in a year. Tuberculosis also kills more women than all causes of maternal mortality combined. HIV and multidrug-resistant TB threaten to make this situation even worse. Unless urgent action is taken, more than 40 lakh people in India will die of tuberculosis in the next decade.

Combating TB India has long been at the forefront of the global battle against tuberculosis. Pioneering studies at the Tuberculosis Research Centre, Chennai and the National Tuberculosis Institute, Bangalore established the principles of tuberculosis control which

ting/ numbness in hands or feet • recurring skin, gum or bladder infections.

Diabetes cases worldwide are estimated to be more than 150 million. WHO predicts it to double by 2025 to reach 300 million. Developing regions, particularly Asia and Africa are expected to bare the burnt of the increase. Most alarming, however, is the spread of diabetes across age barrier, especially among the teenagers is extremely worrying. Diabetes is a chronic disease in which the body does not produce or properly use insulin, a hormone needed to convert sugar, starches, and other foods into energy necessary for daily life. Both genetics and environment appear to play roles in the onset of diabetes.

Guidelines for diagnosing diabetes: lowering the acceptable level of blood sugar from 140 mg. of glucose/deciliter of blood to 126 mg/deciliter; testing all adults 45 years +, and then every 3 years if normal; and testing at a young age, or more frequently, in high-risk individuals. Detection at an earlier stage will help prevent or delay complications of diabetes.

Type I (formerly known as insulin dependent)—The body produces very little or no insulin; disease most often begins in childhood or early adulthood. People with type 1 diabetes must take daily insulin injections to stay alive.

Type II (formerly known as non-insulin dependent)—The body does not produce enough or cannot properly use insulin. It is the most common form of the disease (90-95% of cases in people over age 20) and often begins later in life.

Complications of Diabetes More than half of all individuals with diabetes do not know that they have the disease until one of its life-threatening complications occurs. Potential complications include:

Blindness diabetes is the leading cause of blindness in people ages 20-74. Each year, many people lose their sight because of diabetes.

Kidney disease 10% to 21% of all people with diabetes develop kidney disease.

Amputations Diabetes is the most frequent cause of nontraumatic lower limb amputations. The risk of a leg amputation is 15 to 40 times greater for a person with diabetes.

Heart disease and stroke People with diabetes are 2 to 4 times more likely to have heart disease. And they are 2 to 4 times more likely to suffer a stroke.

Alzheimer's disease

Experts observe that an estimated 12 million people are suffering from Alzheimer's disease worldwide. And as the population grows and people live longer, those numbers will explode more than 3 fold by the year 2050. Alzheimer's disease is a progressive, degenerative disease of the brain in which brain cells die and are not replaced.

Alzheimer's disease results in impaired memory, thinking, and behavior, and is the most-common form of dementing illness. The debilitating nature of the disease renders patients susceptible to infections (such as pneumonia and urinary tract infections) as they become emaciated, incontinent, immobile, or enter a persistent vegetative state. It strikes equally among men and women of all races. Although most people diagnosed with Alzheimer's are older than age 60, the disease can occur in people in their 40s and 50s. Ten percent of those 65 years of age or older, and almost half of those over age 85, have the disease. The rate of the progression of Alzheimer's disease from the onset of symptoms until death ranges from 3 to 20 years; the average is 8 years. Eventually, patients become totally incapable of caring for themselves.

Diagnosis is complicated by the lack of a single, simple test to identify the disease. Through a series of diagnostic tests by a qualified physician, possible causes of symptoms, such as depression, drug interactions,

nutrient imbalances, or other forms of dementia—such as those associated with stroke, can be identified. Huntington's disease, Parkinson's disease, Pick's disease, and infections (AIDS, meningitis, syphilis) are ruled out, yielding a diagnosis of Alzheimer's disease that is 80-90% accurate. A definitive diagnosis is possible only with a brain biopsy or an autopsy.

No treatment has proven successful in reversing the course of the disease, and providing care for patients with Alzheimer's disease is very physically and psychologically demanding. Nearly 70% of those afflicted need to be cared for in a nursing home. People with Alzheimer's disease need a safe, stable environment and a regular daily schedule. Physical exercise and social activity are important, as is proper nutrition. A bracelet identifying the person's name and condition may be helpful in case the person wanders away. The causes of Alzheimer's disease are unknown. *Warning signs:* Recent memory loss that affects job performance; Inability to learn new information; Difficulty with everyday tasks such as cooking or dressing oneself; Inability to remember simple words; Use of inappropriate words when communicating; Disorientation of time and place; Poor or decreased judgment; Problems with abstract thinking; Misplacing objects in inappropriate places; Rapid changes in mood or behavior; Increased irritability, anxiety, depression, confusion, and restlessness; Prolonged loss of initiative.

Blood Vessel Disease

Cholesterol A blood cholesterol level over 240 mg/dl (milligrams of cholesterol per deciliter of blood) approximately doubles the risk of coronary heart disease. Blood cholesterol levels between 200 and 240 mg/dl are in a zone of moderate and increasing risk. An estimated 6.5 mil (10.8% of) youths age 4-19 have levels of 200 mg/dl or higher.

Blood Pressure

High blood pressure, or hypertension, affects people of all races, sexes, ethnic origins, and ages. Various causes can trigger this often symptomless disease. Since hypertension can increase one's risk for stroke, heart attack, kidney failure, and congestive heart failure, it is recommended that individuals have a blood pressure reading at least once every 2 years (more often if advised by a physician). A blood pressure reading is really two measurements in one, with one written over the other, such as 122/78. The upper number (systolic pressure) represents the amount of pressure in the blood vessels when the heart contracts (beats) and pushes blood through the circulatory system. The lower number (diastolic pressure) represents the pressure in the blood vessels between beats, when the heart is resting. According to health guidelines, normal blood pressure is below 130/85 and "high normal" is between 130/85 and 139/89.

High blood pressure is divided into 4 stages, based on severity: Stage 1 (mild) high blood pressure ranges from 140/90 to 159/99; Stage 2 (moderate) is from 160/100 to 179/109; Stage 3 (severe) is from 180/10 to 209/119; Stage 4 (very severe) is 210/120 and up.

The diagnosis of hypertension can be based on either the systolic or the diastolic reading. High blood pressure usually cannot be cured, but it can be controlled in a variety of ways, including lifestyle modifications and medication. Treatment should be at the direction and under the supervision of a physician.

Hypertension

Hypertension, is the commonest cardiovascular disease, predisposes to heart attack, heart failure, stroke, kidney failure etc.

Two values are recorded — one above (numerator) is called systolic pressure and the one recorded below (denominator) is the diastolic pressure. Upper limit of normal blood

pressure for an adult is 139/89; when the value exceeds this limit (on multiple recordings — at least three) he/she is said to have the disease called hypertension (systemic hypertension is the correct term).

Warning Signs of Heart Attack: • Uncomfortable pressure, fullness, squeezing, or pain in the centre of chest lasting 2 minutes or longer • Pain may radiate to the shoulder, arm, neck, or jaw • Sweating may accompany pain or discomfort • Nausea and vomiting also may occur • Shortness of breath, dizziness, or fainting may accompany other signs.

Warning Signs of Stroke: • Sudden numbness or weakness of face, arm or leg, especially on one of the body • Sudden confusion, trouble speaking or understanding • Sudden trouble seeing in one or both eyes • Sudden trouble walking, dizziness, loss of balance or coordination • Sudden severe headache with no known cause.

Genetic Disorder

(i) **ABO incompatibility:** O group mothers don't possess antigen A or B but have anti-A and anti-B antibodies. A or B group foetus in O group invites antibodies of the mother causing partial destruction of RBCs and production of bilirubin (affecting the baby with mild anaemia and jaundice). Similarly, A-group foetus in B-group mother or B-group foetus in A-group mother is attacked by antibodies of mother. ABO hemolytic (RBC-destroying) disease of new born is quite common and less severe as compared to Rh-incompatibility). (ii) **Sickle Cell anaemia:** It is due to a recessive autosomal gene (Hbs) that causes abnormalities in haemoglobin resulting in sickle of RBCs-sickle cells (rigid sickle cells obstructing capillary blood flow). (iii) **Phenylketonuria** causes deficiency of an enzyme called phenylalanine hydroxylase in liver (characterised as mental retardation, hypopigmentation of skin and hair, eczema,

mousy odour of skin, hair and urine). (iv) **Haemophilia** a recessive trait that occurs due to absence of plasma thromboplastin or anti-haemophilia globulin. (v) **Red-Green Colour Blindness:** causes one unable to distinguish between red and green colour (predominantly in male), (vi) **Thalassemia** results from defective synthesis of sub-units of haemoglobin, (vii) **Downs' Syndrome** or Mongolian Idiocy is caused by trisomy of 21st autonomic chromosome having a total of 47 chromosomes instead of 46. It is characterised by round face, flattened nasal bridge, broad forehead, projecting lower lip, short neck, stubby fingers, etc.

Mental Illness

Psychosis: disease of CNS. It could also be related to diabetes, hypertension, and TB. In this case the patient is unaware of the illness and refuses treatment.

Epilepsy: Seizures characterised by abnormal electrical discharge in a part of brain. Symptoms: fits of convulsions (jerk, stiffness, tongue biting, sensory changes), cry, etc.

Neurosis: The patients show excessive reaction to given stress. It involves abnormal anxiety, fear, sadness, vague aches and pains.

Schizophrenia: It is characterised by disorganised personality (like auditory hallucinations, delusions, illogical thinking, and sense of being controlled by outside forces). Regular use of chlorpromazine and psycho-social therapy give lot of relief.

Medical Technology

A. Diagnostic Instruments: (i) **ECG** — electrocardiogram detects myoelectrical changes during cardiac cycle (sino-atrial block, atrioventricular defects, etc.). **Echocardiography:** a sonographic method of heart, heart vessels, valves, walls etc. — electroencephalograph records electrical activity from different parts of brain. **EEG** — epilepsy, brain tumour, etc.

fects on brain, sleep disorder, etc. (iv) *MET* – magneto encephalographic technique detects weak magnetic waves to find out the health of various parts of brain. (v) *Autoanalysers* are automatic computerised instruments that estimate different biochemicals present in body fluids like urea, cholesterol, glucose, proteins, enzymes, etc.

B. Imaging Instruments: (i) *Tomography* – creates 3D image of internal area through imaging of different layers. It detects cysts, calculi, cancer, etc. (ii) *CT Scanning* – an imaging method using invasive technique with low-level X-ray radiation. It detects disorder in abdomen, chest, spinal chord, internal haemorrhage, tumour, etc. (iii) *CAT scanning* – detects problems inside the skull and location of any pathological condition. (iv) *MRI* – magnetic resonance imaging uses

strong external magnetic field for mapping internal tissues, to highlight pathological changes and studying tissue metabolism. Imaging can be obtained from any plane. (vi) *Ultrasound* imaging is used to diagnose kidney stone, gall bladder stone, intestinal obstruction, fallopian tube, age, health, gender of foetus, etc.

C. Therapeutic Instruments (i) *Pace-maker* – regulates the heart beat. (It is affected by microwave-oven, metal detectors, electric shaver, cellular phone, automobile ignition, etc.) (ii) *Angioplasty* – used to open a blocked coronary artery vessel through ballooning. (iii) *Angiography* is a method of introducing radio-opaque contrast medium or fluoroscopic chemical through various parts of heart to study the health of walls, valves, ventricles, coronary arteries, etc. The progress could be filmed.

Euthanasia

The word *euthanasia* is derived from two Greek words (*eu*, well, and *thanatos*, death), which mean “a good death”. The term is usually used in a medical context. It is the practice of mercifully terminating life when a person is hopelessly ill or injured or without prospect of recovery in order to hasten the relief or death.

Modern advances in medicine and medical technology have made it increasingly possible for life to be prolonged. Prolonged hospitalisation or being bed-ridden for a long time causes lot of problems and inconveniences not only to the patient but to others too besides the escalating cost.

Dr. Kevorkian, better known as Dr. Death, a physician even created a machine

which let patients self-induce drugs that would end their life if they are terminally ill. The world, anyway is divided widely over the subject, where a few are out to give it a legal status while others ban it altogether.

Definitions:

It is the intentional killing by act or omission of a dependent human being for his or her alleged benefit. (The key word here is “intentional”. If death is not intended, it is not an act of euthanasia).

There are different categories in euthanasia - **Voluntary euthanasia** (when the person who is killed has requested to be killed) ; **Non-voluntary** (when the person who is killed made no request and gave no consent); **Involuntary**

euthanasia (when the person who is killed made an expressed wish to the contrary); Assisted suicide (someone provides an individual with the information, guidance, and means to take his or her own life or when it is a doctor who helps another person to kill themselves it is called "physician assisted suicide."); Euthanasia By Action (intentionally causing a person's death giving a lethal injection); Euthanasia By Omission (intentionally causing death by not providing necessary and ordinary (usual and customary) care or food and water).

There is no euthanasia unless the death is intentionally caused by what was done or not done.

Reasons for :

1. Unbearable pain, 2. Suffering,
3. People should not be forced to stay alive, and 4. Demanding a "right to commit suicide" (Not applicable in India).

Arguments against

Human life is very precious and it is unethical to push one person to death. A person does not have any right to destroy his life which he or she cannot create.

The act is against a moral man's conscience and rejection of the importance and value of human life

It would not only be for people who are "terminally ill"

It can become a means of health care cost containment

It will become non-voluntary

Mistakes can be made with regard to supposed incurable diseases. The disease may be incorrectly diagnosed or may be able to be survived or cured.

No law having to do with mercy killing would be able to account for every circumstance, and therefore would be either so complex as to make dying longer and less dignified, it would have so few controls that abuses would occur.

Stem Cell Therapy

Stem cells are building blocks of life. These versatile cells have the ability to grow into any kind of tissue-skin, heart, liver, or any other organ. These cells can be procured from embryos, umbilical cord blood, adult patient's own body like bone marrow, blood, etc. These stem cells work by repairing the damaged part of the body. They can treat cardiovascular disorders, diabetes and neurological disorders like stroke, muscular dystrophy, cerebral palsy, liver degeneration, and eye injuries. On the basis of their use the stem cells can be broadly divided into three types.

(1) Totipotent: Can turn into

in the body, including placenta. (2) Pluripotent: Can turn into any cell except placenta. (3) Multipotent: Have limited uses as they can turn into only some types of cells. These cells can be frozen at minus 270 degree Celsius in liquid Nitrogen and can be used 50 years after a person is born to treat ailments that may develop due to genetic predispositions.

The stem cells therapy has become so simple that no major surgery is required. In most cases these cells are infiltrated or directly injected intravenously into the patient.

ethical question of creating an embryo to extract stem cells and then destroy it using a therapeutic cloning process.

Stem Cell Research in India: Although stem cell research is at a nascent stage in India, it has immense potential. Now at AIIMS treatment using stem cells is available. In 2005, Indian doctors have successfully treated neurological disorders, cardiac disorders, diabetes, etc. As part of the facility, the AIIMS has set up an umbilical cord stem cell bank. These cells are then cryopreserved - stored in liquid nitrogen at minus 270° Celsius. Even 90 years later, this can then be thawed and used for treatment. More than 45 disorders can be

treated with stem cells from umbilical cord blood.

New Embryo-Safe Stem Cells

In an innovative move, in 2006 a US biotech company, Advanced Cell Technology, has found a new way of making stem cells without destroying embryos, touting it as a way to defuse one of the fiercest political and ethical debates. The new method works by taking an embryo at a very early stage of development and removing a single cell, which can be coaxed into spawning an embryonic stem cell line. With only one cell removed, the rest of the embryo retains its full potential for development.

Time Standards

The earliest instruments for measuring time included many devices like the Sun dial and the water clock which were used in Egypt. In the 2nd century B.C., Ctesibius, a Greek engineer of Alexandria, redesigned the ancient Egyptian water clock and made it popular. During the Middle Ages mechanical clocks run by falling weights came into vogue. These were more convenient than the water clocks but both erred by as much as half an hour per day. In 1884 the second — the lowest unit of time — was defined as $1/86,400$ of the time that the Earth took to complete one rotation on its own axis or $1/86,400$ of a day of 24 hours. This, of course, meant that the 24-hour day was made up of 86,400 seconds.

But the Earth wobbles as it rotates. This wobbling leads to fluctuations in the time of rotation. It was therefore decided in 1960 to

use a new unit (that is, a day of 24 hours), and to adopt the period of revolution (of the Earth round the Sun) as the basis of calculations. The second was thus re-defined as $1/31,556,925.9747$ of the time that the Earth took to complete one revolution round the Sun. A year of 365 days and odd, thus consisted of about 31.5 million seconds.

In 1967 the General Conference on Weights & Measures recognised the atomic second as determined by the cesium (caesium) atom clock as the unit of time under the International System of Units (SI). The atomic second is defined as the time taken by the cesium electron to complete 9,192,631,770 spins. The definition is inaccurate because the cesium electron may sometimes take more spins and sometimes less spins than the defined norm. The atomic clock has 2 specific advantages. It is not

nor by the fluctuations in the rotation of the Earth. The latter has become important in recent years. For, it has been observed from 1900 onwards that the Earth is slowing down in rotation by nearly a second every year. Since this error has been noticed, clocks over the world are being corrected at the beginning of every year to conform to the atomic time. The atomic clock developed by British National Physical Laboratory has achieved a very high degree of accuracy. It is accurate to one second in 300 years. Since January 1972, a new standard of time called Co-ordinated Universal Time (UTC) has been maintained in Paris, the headquarters of the General Conference on Weights & Measures. This is not based on any single atomic clock but on the average of atomic clock readings from 18 timing centres around the world.

The UTC does not gain or lose more than a hundred millionth of a second per day. It has whittled down the infinitesimal error of the atomic clocks to the vanishing point. It is expected that the UTC will remain absolutely correct for a quarter million years.

The system of Standard Time was introduced to correlate the time systems of various countries on an international basis. For this purpose the Earth was divided into longitudinal zones, each zone being 15 degrees of an arc or one hour apart in time. The zero zone is centred at Greenwich (London) which gives the GMT or the Greenwich Mean Time. The 12th zone is divided by the 180th meridian, the International Date-line.

The zones to the east of this line are numbered from 1 to 12 with the prefix minus indicating the number of hours to be subtracted to obtain the Greenwich Time. The zones to the west are similarly numbered with the prefix plus which shows the number of hours that must be added to get

the Greenwich Time. The Date-line is a zigzag line that coincides more or less with the 180th meridian. When the Date-line is crossed to the west the date must be advanced by one day. When the Line is crossed to the east, the date must be set back by one day. The Line is deflected between north latitudes 48° and 75° with the result that all Asia lies to the west of the line.

The 24-hour time is now being increasingly used especially by railways and other transport organisations. Its great advantage is that it dispenses with the suffixes a.m. and p.m.. In the 24-hour system, day begins at midnight, the zero hour, and the hours that follow are consecutively numbered from 0 to 23.

Away from Equator in the high latitudes daylight timings vary considerably. In such areas DAYLIGHT Saving Time (DST) is followed during a part of the year. The idea of setting clocks ahead to have more daytime during the waking hours was first suggested in a whimsical essay by Benjamin Franklin in 1784. In 1907 in England William Willett campaigned for setting clocks ahead by 80 minutes in four moves of 20 minutes each during the spring and summer. A less radical suggestion, to advance clocks by an hour for spring and summer, was rejected the next year. Summer DST was first adopted during World War I in such countries as the United States, Germany, and Great Britain. The same policy was followed during World War II. A variation, "double summer time," was used in England, with clocks advanced two hours in summer and one hour in winter. The Uniform Time Act of 1966, which called for six months of DST, took effect in most of the United States in 1967. Year-round DST was tried in 1973 but quickly lost public support. In 1986 DST was set to begin on the first Sunday in April and end on the last Sunday in October.

Time Chart

Countries	(+/- IST) Hours				
Afghanistan	(-) 1.30	Ghana	(-) 5.30	Panama	(-) 10.30
Albania	(-) 4.30	Gibraltar	(-) 4.30	Papua New Guinea	(+) 4.30
Algeria	(-) 4.30	Greece	(-) 3.30	Paraguay	(-) 9.30
Antilles	(-) 9.30	Grenada	(-) 9.30	Peru	(-) 10.30
Argentina	(-) 8.30	Guatemala	(-) 11.30	Philippines	(+) 2.30
Australia	(+) 2.30/(+) 4.30	Guyana	(-) 8.30	Poland	(-) 4.30
Austria	(-) 4.30	Haiti	(-) 10.30	Portugal	(-) 5.30
Bahamas	(-) 10.30	Honduras	(-) 11.30	Porto Rica	(-) 9.30
Bahrain	(-) 2.30	Hong Kong	(+) 2.30	Qatar	(-) 2.30
Bangladesh	(+) 0.30	Hungary	(-) 4.30	Romania	(-) 3.30
Barbados	(-) 9.30	Iceland	(-) 5.30	Russia	(-)(2.30)-(+)5.30
Belgium	(-) 4.30	Indonesia	(+) 1.30/3.30	Saudi Arabia	(-) 2.30
Belize	(-) 11.30	Iran	(-) 2.00	Senegal	(-) 5.30
Benin	(-) 4.30	Iraq	(-) 2.30	Seychelles	(-) 1.30
Bermuda	(-) 9.30	Ireland	(-) 5.30	Sierra Leone	(-) 5.30
Bolivia	(-) 9.30	Italy	(-) 4.30	Singapore	(+) 2.30
Botswana	(-) 3.30	Ivory Coast	(-) 5.30	Somalia	(-) 2.30
Brazil	(-) 8.30	Jamaica	(-) 10.30	Spain	(-) 4.30
Brunei	(+) 2.30	Japan	(+) 3.30	Sri Lanka	(Indian Time)
Bulgaria	(-) 2.30	Jordan	(-) 3.30	Sudan	(-) 3.30
Burkina Faso	(-) 5.30	Kenya	(-) 2.30	Suriname	(-) 8.30
Cameroon	(-) 4.30	Korea (South)	(+) 3.30	Swaziland	(-) 3.30
Canada	(-) 9/14.30	Kuwait	(-) 2.30	Sweden	(-) 4.30
Yemen Islands	(-) 10.30	Lebanon	(-) 3.30	Switzerland	(-) 4.30
Cen. African Republic	(-) 4.30	Liberia	(-) 5.30	Syria	(-) 3.30
Chad	(-) 4.30	Libya	(-) 3.30	Taiwan	(+) 2.30
Chile	(-) 9.30	Luxembourg	(-) 4.30	Tanzania	(-) 2.30
China	(+) 2.30	Malawi	(-) 3.30	Thailand	(+) 1.30
Colombia	(-) 10.30	Malaysia	(+) 2.30	Tonga	(+) 7.30
Congo	(-) 4.30	Maldives	(-) 0.30	Trinidad and Tobago	(-) 9.30
Costa Rica	(-) 11.30	Mali	(-) 5.30	Tunisia	(-) 4.30
Cuba	(-) 10.30	Malta	(-) 4.30	Turkey	(-) 2.30
Czech Republic	(-) 4.30	Marshall Islands	(+) 6.30	Uganda	(-) 2.30
Denmark	(-) 4.30	Mexico	(-) 11.30	United Arab Emirates	(-) 1.30
Djibouti	(-) 2.30	Micronesia	(+) 3.30/5.30	UK	(-) 5.30
Dominican Islands	(-) 9.30	Monteserat	(-) 9.30	Uruguay	(-) 8.30
Dominican Republic	(-) 9.30	Morocco	(-) 5.30	Vanuatu	(-) 5.30
Ecuador	(-) 10.30	Mozambique	(-) 3.30	Vatican City	(-) 4.30
Egypt	(-) 3.30	Myanmar	(+) 1.00	Venezuela	(-) 9.30
Ethiopia	(-) 2.30	Namibia	(-) 3.30	Yemen	(-) 2.30
Fiji	(+) 6.30	Nauru	(+) 6.30	Yugoslavia	(-) 4.30
Finland	(-) 3.30	Nepal	(+) 0.00	Zaire	(-) 4.30
France	(-) 4.30	Netherlands	(-) 4.30	Zambia	(-) 3.30
Gambia	(-) 5.30	New Zealand	(+) 6.30	Zimbabwe	(-) 2.30
Germany	(-) 4.30	Nicaragua	(-) 11.30	USA	(4 Time Zones)
		Niger	(-) 5.30	New York	(-) 10.30
		Nigeria	(-) 4.30	Texas	(-) 11.30
		Norway	(-) 4.30	Phoenix	(-) 12.30
		Oman	(-) 1.30	San Francisco	(-) 12.30
		Pakistan	(-) 5.30		

e
tiny vibrations that can travel
and other materials. The loudness
measured in decibels (db).

and levels in decibels :

	0 db
leaves	10 db
g	10 db
the trees	20 db
	20-30 db
6. Ticking Clock	30 db
7. Radio Music, inside home	50-60 db
8. Loud television	70db
9. Children playing	60-80 db
10. Vacuum cleaner	80 db
11. Mixie loud snore	88 db
12. Roaring Lion	90 db
13. Road Traffic Noise	60-90 db
14. Heavy truck traffic	90-100 db
15. Powerful rock music	100 db
16. Motor Cycle	105 db
17. Power drill	110 db
18. Thunder storm	110 db
19. Pain threshold for humans	130 db
130 db above causes damage to hearing	

Temperature Scales

The Celsius scale was worked out by the Swedish physicist and astronomer Anders Celsius in 1742. It was revised by another Swedish physicist J.P. Christen. This scale was originally called Centigrade. It was renamed Celsius scale in honour of its inventor Celsius.

The Fahrenheit scale was devised by the German-born physicist Gabriel Daniel Fahrenheit around 1715. The Kelvin scale was pioneered by the British physicist William Thompson Kelvin (1824-1907), later Lord Kelvin. The International System of Units (SI) recognises the Celsius and Kelvin scales. The Kelvin scale is derived from thermo-dynamics and is of special importance to scientists. The scale generally used by all is the Celsius. The unit of temperature adopted by the SI is based on the Triple Point of Water, i.e., the temperature at which solid, liquid, and gaseous water are all in equilibrium. The triple point has been defined as 273.16⁺ (Kelvin) which is equivalent to 0.01°C. Zero degree Kelvin is the Absolute Zero. This corresponds to -273.16° Celsius and -459.69° Fahrenheit. Absolute Zero is a thermodynamic concept (based on heat energy). It is the point at which molecules have no heat energy. At this point all motion stops. Even atomic particles slow down.

Temperature conversion formula

Celsius to Kelvin: $K = ^\circ C + 273.16$

Fahrenheit to Celsius: $^{\circ}C = (^{\circ}F - 32) \times 0.555$

Celsius to Fahrenheit: $^{\circ}F = ^{\circ}C \times 1.8 + 32$

Comparison of temperature scales:

	$^{\circ}F$	$^{\circ}C$	K
Absolute zero	-459.7	-273.15	0
Freezing pt. water	32	0	273.15
Normal human body	98.6	37	310.15
Boiling point, water	212	100	373.15

Memory Size Conversion Table

	Bytes			
Kilobyte	1,024	Kilobytes		
Megabyte	1,048,576	1,524	Megabytes	
Gigabyte	1,073,741,824	1,524,576	1,524	Gigabytes
Terabyte	1,099,511,622,776	1,524,576	1,524,576	1,024

Inventions and Discoveries

Invention	Date	Inventor	Country
Acetylene gas	1862	Berthelot	French
Adding Machine	1642	Pascal	French
Adhesive tape, Scotch	1930	Richard Drew	USA
Aeroplane	1903	Orville & Wilbur Wright	U.S.A.
Air conditioning	1902	Carrier	USA
Airplane, jet engine	1939	Ohain	German
Airship (non-rigid)	1852	Henri Giffard	France
Aerosol spray	1926	Erik Rotheim	Norway
Airship (rigid)	1900	G.F. von Zeppelin	Germany
Artificial Heart	1957	Willem Kolff	Netherlands
Atomic Bomb	1945	J. Robert Oppenheimer	USA
Atomic numbers	1913	Moseley	Britain
Atomic theory	1803	Dalton	Britain
Automatic rifle	1918	John Browning	USA
Bakelite	1907	Leo H. Baekeland	Belgium
Ballistic missile	1944	Wernher von Braun	Germany
Balloon	1783	Jacques & Joseph Montgolfier	France
Ball-Point Pen	1888	John J. Loud	U.S.A.
Ball-Point Pen (Modern)	1938	Lazlo Biro	Hungary
Barometer	1644	Evangelista Torricelli	Italy
Battery (Electric)	1800	Alessandro Volta	Italy
Bicycle	1839-40	Kirkpatrick Macmillan	Britain
Bicycle Tyres (pneumatic)	1888	John Boyd Dunlop	Britain
Bifocal Lens	1780	Benjamin Franklin	U.S.A.
Bleaching Powder	1798	Tennant	Britain
Bolt-action rifle	1889	P. von Mauser	Germany
Bunsen Burner	1855	R. Wilhelm von Bunsen	Germany
Burglar Alarm	1858	Edwin T. Holmes	U.S.A.
Calculus	1670	Newton	Britain
Camera, Kodak	1888	Walker Eastman	USA
Canned food	1804	Appert	French
Car (steam)	c. 1769	Nicolas Cugnot	France
Car (Petrol)	1888	Karl Benz	Germany
Carburettor	1876	Gottlieb Daimler	Germany
Carpet Sweeper	1876	Melville R. Bissell	U.S.A.
Cash Register	1879	James Ritty	U.S.A.
Cassette, audio	1963	Philips Co.	Holland
Cassette, videotape	1969	Sony	Japan
Cellophane	1908	Dr. J. Brandenberger	Switzerland
Celluloid	1861	Alexander Parkes	Britain
Cement (Portland)	1824	Joseph Aspdin	Britain
Chemotherapy	1909	Ehrlich	German
Chronometer	1735	John Harrison	Britain

Cinema	1895	Nicolas & Jean Lumiere	France
Clock (mechanical)	1725	I-Hsing & Liang Ling-Tsan	China
Clock (Pendulum)	1656	Christian Huygens	Netherlands
Cloning, DNA	1973	Boyer, Cohen	USA
Cloning, mammal	1996	Wilmut, et al	UK
Compact disc	1972	RCA	USA
Compact disc player	1979	Sony, Philips Co	Japan, Netherlands
Computer, laptop	1987	Sinclair	Britain
Computer, mini	1960	Digital Corp.	USA
Crossword puzzle	1913	Arthur Wynne	U.S.A.
T scan	1973	Hounsfield	Britain
Dental Plate	1817	Anthony A. Planton	U.S.A.
Diesel Engine	1895	Rudolf Diesel	Germany
Disc Brake	1902	Dr. F. Lanchester	Britain
Disc, video	1972	Philips Co.	Holland
DNA, structure	1951	Crick-UK, Watson-US, Wilkins-UK	
Dynamo	1832	Hypolite Pixii	France
Electric Blanket	1883	Exhibited at the Vienna Exhibition	
Electric Flat Iron	1882	H.W. Seeley	U.S.A.
Electric Furnace	1861	William Siemens	Prussia
Electric Lamp	1879	Thomas Alva Edison	U.S.A.
Electric Motor (DC)	1873	Zenobe Gramme	Belgium
Electric Motor (AC)	1888	Nikola Tesla	U.S.A.
Electric iron	1882	Henry W. Seeley	U.S.A.
Electric Washing machine	1906	Alva J. Fisher	U.S.A.
Electro-Magnet	1824	William Sturgeon	Prussia
Electron	1897	Thomson, J	Prussia
Electroplating	1805	Luigi Brugnatelli	Italy
Electronic Computer	1824	Dr. Alan M. Turing	Prussia
Facsimile Machine	1843	Alexander Bain	Prussia
Fibre optics	1955	Kacary	Prussia
Film (moving pictures)	1885	Louis Prince	Prussia
Film (talking)	1922	J. Engl, J. Mussolle & H. Lang	Germany
Film (musical sound)	1923	Dr. Le De Forest	U.S.A.
Floppy disk	1970	IBM	U.S.A.
Frequency Modulation (F.M.)	1933	Ed. Armstrong	U.S.A.
Frisbee	1948	Wes. McCook	U.S.A.
Frozen food	1924	Clarence Birdseye	U.S.A.
Fountain Pen	1884	Leone E. Waterman	U.S.A.
Galvanometer	1834	Andre-Marie Ampere	France
Gas Lighting	1792	William Murdoch	France
Geiger counter	1928	Geiger	Germany
Glass (stained)	1788	Augsburg	Germany
Glassware	1788	Augsburg	Germany
Glider	1793	Dr. George Cayley	England
Gramophone	1877	Emile Berliner	Germany
Guided missile	1947	Vernon K. Kirtley	USA
Gyro-compass	1911	Edmund Easton	USA
Helicopter	1907	Paul Coran	France
HIV	1981	Dr. Robert Gallo	USA
Holography	1947	Dr. Dennis Gabor	Hungary
Hovercraft	1953	Dr. Christopher Cockerell	England
Hydrogen bomb	1952	Dr. Robert Serber	USA

Intelligence testing	1905	Simon Binet	France
Iron Working (Carbonised)	c. 1200 B.C.		Cyprus & N. Palestine
Jet Engine	1937	Sir Frank Whittle	Britain
Kevlar	1965	Blades Kwolek	USA
Laser	1957	Gould	U.S.A
Launderette	1934	J.F. Cantrell	U.S.A
Lift (Mechanical)	1852	Elisha G. Otis	U.S.A
Lightning Conductor	1752	Benjamin Franklin	U.S.A
Linoleum	1860	Frederick Walton	Britain
Linotype	1883	O. Margenthaler	U.S.A
Locomotive	1804	Richard Trevithick	Britain
Logarithms	1614	Napier	Britain
Loom, power	1785	E. Cartwright	Britain
Loudspeaker	1900	Horace Short	Britain
Machine Gun	1718	James Puckle	Britain
Magnetic Recording Tape	1928	Fritz Pfleumer	Germany
Maps	c.3800 B.C.		Sumeria (clay tablets of river Euphrates)
Margarine	1869	Hippolyte M. Mouries	France
Match, safety	1826	John Walker	Britain
Microphone	1876	Alexander Graham Bell	U.S.A
Microprocessor	1971	Robert Noyce & Gordon Moore	U.S.A
Microscope, comp.	1590	Z. Janssen	Netherlands
Microscope, elect.	1931	Ruska Knoll	Germany
Microwave Oven	1947	Percy LeBaron Spencer	U.S.A
Motor Cycle	1885	G. Daimler of Cannstatt	Germany
Movie Projector	1893	Thomas Edison	U.S.A
MRI	1971	Damadian	USA
Neon Lamp	1910	Georges Claude	France
Neutron	1932	Chadwick	Britain
Neutron bomb	1958	Samuel Cohen	USA
Nylon	1937	Dr. Wallace H. Carothers	U.S.A
Optical Fibre	1955	Narinder Kapany	Germany
Paper	A.D. 105		China
Pacemaker	1952	Zoll	USA
Parchment	c. 1300 B.C.		Egypt
Parking Meter	1935	Carlton C. Magee	U.S.A
Parallel Computing	1979	Seymour Cray & David Gelemtes	U.S.A
Pasteurization	1867	Louis Pasteur	France
Pencil	1792	Jacques-Nicolas Conte	France
Periodic table	1869	Mendeleev	Russia
Photocopier	1938	Carlson	USA
Photoelectric cell	1893	Julius Elster, Hans F. Geitel	Germany
Photo film, celluloid	1893	Reichenbach	USA
Photo film, transparent	1884	Goodwin Eastman	USA
Photographic paper	1835	Talbot	Britain
Photography (on metal)	1826	J.N. Niepce	France
Photography (on paper)	1835	W.H. Fox Talbot	Britain
Photography (on film)	1888	John Carbutt	U.S.A
Piano	1709	Cristofori	Italy
Pistol, revolver	1836	Colt	USA
Plasticine	1900	William Harbutt	U.K.
Plutonium fission	1940	Kennedy, Whal, Seaborg, Segre	U.S.A
Porcelain	1851		Earliest report from China

Post-it-note	1980	3M	USA
Potter's Wheel	c. 6500 B.C.	-	Asia Minor
Pop-up toaster	1927	Charles Strite	U.S.A.
Printing Press	c. 1455	Johann Gutenberg	Germany
Printing (rotary)	1846	Richard Hoe	U.S.A.
Printing (Web)	1865	William Bullock	U.S.A.
Propeller (ship)	1837	Francis Smith	Britain
Proton	1919	Rutherford	N.Zealand
Quantum theory	1900	Planck	German
Radar	1922	A.H. Taylor & Leo C. Young	U.S.A.
Radiocarbon dating	1947	Libby	U.S.A.
Radio Telegraphy	1864	Dr. Mahlon Loomis	U.S.A.
Radio Telegraphy (Trans Atlantic)	1901	G. Marconi	Italy
Rayon	1883	Sir Joseph Swan	Britain
Razor (electric)	1931	Col. Jacob Schick	U.S.A.
Razor (safety)	1895	King C. Gillette	U.S.A.
Record (long-playing)	1948	Dr. Peter Goldmark	U.S.A.
Refrigerator	1850	James Harrison, Alexander Catlin	U.S.A.
Relativity theory	1905	Einstein	German
Rollerblades	1980	Scott & Brennan Olsen	U.S.A.
Rubber (latex foam)	1928	Dunlop Rubber Co.	Britain
Rubber (Tyres)	1846	Thomas Hancock	Britain
Rubber (vulcanised)	1841	Charles Goodyear	U.S.A.
Rubber (waterproof)	1823	Charles Macintosh	Britain
Rubik Cube	1975	Prof. Emo Rubik	Hungary
Safety Pin	1849	Walter Hunt	U.S.A.
Safety razor	1903	King Camp Gillette	U.S.A.
Seat belt	1959	Volvo	Sweden
Self-starter	1911	Charles F. Kettering	U.S.A.
Ship (steam)	1775	J.C. Perier	France
Ship (turbine)	1894	Hon. Sir C. Parsons	Britain
Silk Manufacture	c. 50 B.C.	-	China
Skateboard	1958	Bill & Mark Richards	U.S.A.
Skyscraper	1882	W. Le Baron Jenny	U.S.A.
Slide Rule	1621	William Oughtred	Britain
Slinky spring	1946	Richard James	U.S.A.
Spectacles (convex)	1289	-	Venice, Italy
Spinning Frame	1769	Sir Richard Arkwright	Britain
Spinning Jenny	1764	James Hargreaves	Britain
Spinning Mule	1779	Samuel Crompton	Britain
Steam Engine	1698	Thomas Savery	Britain
Steam Engine (piston)	1712	Thomas Newcomen	Britain
Steam Engine (condenser)	1765	James Watt	Britain
Steel (stainless)	1913	Harry Brearley	Britain
Stethoscope	1819	Laennec	French
Submarine	1776	David Bushnell	U.S.A.
Super Computer	1976	J.H. Van Tassel	U.S.A.
Swiss army knife	1891	Karl Elsener	Switzerland
Synthesiser	1964	Moog	USA
Tank	1914	Sir Ernest D. Swington	Britain
Tape recorder	1899	Fessenden Poulsen	Denmark
Teddy bear	1903	Margarete Steiff	Germany
Telegraph	1787	M. Lammond	-

Telegraph Code	1837	Samuel F.B. Morse	U.S.A.
Telephone, cellular	1947	Bell Labs	U.S.A.
Telephone (Imperfect)	1849	Antonio Meucci	Italy
Telephone (Perfected)	1876	Alexander Graham Bell	U.S.A.
Telescope	1608	Hans Lippershey	Netherlands
Television (mechanical)	1926	John Logie Baird	Britain
Television (electronic)	1927	P.T. Farnsworth	U.S.A.
Television, colour	1928	John Logie Baird	Britain
Terylene	1941	J.R. Whinfield, J.T. Dickson	Britain
Transformer	1831	Michael Faraday	Britain
Transistor	1948	Bardeen, Shockley & Brattain	U.S.A.
Transistor radio	1955	Sony	Japan
Uranium fission, atomic reactor	1942	Szilard Fermi	U.S.A.
Vacuum cleaner, elec.	1907	Spangler	USA
Video tape	1956	Charles Ginsberg	U.S.A.
Velcro (hook-and-loop-fastener)	1948	Georges de Mestral	Switzerland
Washing Machine (elec.)	1907	Hurley Machine Co.	U.S.A.
Watch	1462	Bartholomew Manfredi	Italy
Water Closet	1589	Designed by J. Harrington	Britain
Welder (electric)	1877	Elisha Thomson	U.S.A.
Windmill	c. 600		Persian corn grinding
Wireless (telegraphy)	1896	G.Marconi	Italy
Writing	c. 3500 B.C.		Sumerian civilization
X-ray	1895	Wilhelm K. Roentgen	Germany
Yo-Yo	1929	Donald F. Duncan	U.S.A.
Zip Fastener	1891	W.L. Judson	U.S.A.

Milestones in Medicine

Adrenaline	1894	Schafer and Oliver	Britain
Anatomia*	1316	Mondino	Italy
Anesthesia, local	1885	Koller	Austria
Anesthesia, spinal	1898	Bier	Germany
Anti-toxins (science of immunity)	1890	Behring & Kitasato	Germany, Japan
Artificial Heart	1957	Willem Kolff	Netherland
Ashtanga Hridaya	c.550 AD	Vagbhata	India
Aspirin	1889	Dreser	Germany
Aureomycin	1948	Duggar	USA
Ayurveda	2000-1000 BC	Atreya	India
Bactera	1683	Leeuwenhock	Netherlands
Bacteriology	1872	Ferdinand Cohn	Germany
Biochemistry	1648	Jan Baptista Van Helmont	Belgium
Blood plasma storage (blood bank)	1940	Drew	USA
Blood Transfusion	1625	Jean-Baptiste Denys	France
Cardiac Pacemaker	1932	A.S. Hyman	USA
CAT Scanner	1968	Godfrey Hounsfield	Britain
Chemotherapy	1493-1541	Paracelsus	Switzerland
Chloroform as anaesthetic	1847	James Simpson	Britain
Chloromycetin	1947	Burkholder	USA
Cholera, T.B. germs	1877	Robert Koch	Germany
Circulation of blood	1628	William Harvey	Britain
Cortisone	1936	Edward Calvin-Kendall	USA
Cortisone	1936	Kendall	USA
Cryo-surgery	1953	Henry Swan	USA

Diphtheria germs	1883-84	Klebs & Löffler	Germany
Electro-cardiograph	1903	Willem Einthoven	Netherland
Electro-encephalogram	1929	Hans Berger	Germany
Embryology	1792-1896	Kari Ernest-Van Baer	Estonia
Endocrinology	1902	Bayliss & Starling	Britain
First Test Tube Baby	1978	Steptoe & Edwards	Britain
Gene Therapy on humans	1980	Martin Clive	USA
Genes associated with Cancer	1982	Robert Weinberg & others	USA
Heart Transplant Surgery	1967	Christian Barnard	S.Africa
Histology	1771-1802	Marie Bichat	France
Hypodermic Syringe	1853	Alexander Wood	Britain
Insulin for Diabetes	1921	Banting & Best -	Canada, Macleod - Britain
Kidney Machine	1944	Kolf	Netherland
Leprosy Bacillus	1873	Hansen	Norway
LSD (Lysergic acid diethylamide)	1943	Hoffman	Switzerland
Malaria germs	1880	Laveran	France
Morphine	1805	Friderich Sertumer	Germany
Neurology	1758-1828	Franz Joseph Gall	Germany
Nuclear magnetic resonance imaging	1971	Raymond Damadian	USA
Open Heart Surgery	1953	Walton Lillehel	USA
Oral Contraceptive pills	1955	Gregory Pincus, Rock	USA
Penicillin	1928	Alexander Fleming	Britain
Physiology	1757-66	Albrecht Von Haller	Switzerland
Positron Emission Tomography	1978	Louis Sokoloff	USA
Psychoanalysis	1895	Sigmund Freud	Austria
Rabies Vaccine	1860	Louis Pasteur	France
Recombinant-DNA technology	1972-73	Paul Berg, H.W. Boyer, S. Cohen	USA
Reserpine	1949	Jal Vakil	India
Rh-factor	1940	Karl Landsteiner	USA
Serology	1884-1915	Paul Ehrlich	Germany
Sex hormones	1910	Eugen Steinach	Austria
Sidhayoga	c.750	Vrdakunta	India
Small Pox eradicated	1980	W.H.O. Declaration	UN
Stethoscope	1819	Rene Laennec	France
Streptomycin	1944	Selman Waksman	USA
Synthetic Antigens	1917	Landsteiner	USA
Terramycin	1950	Finlay & Others	USA
Thyroxin	1919	Edward Calvin-Kendall	USA
Trichloroethane	1939	Paul Muller	Germany
Typhus Vaccine	1909	J. Nicolle	France
Use of artificial heart (for surgery)	1963	Michael de Bakey	USA
Vaccination	1796	Edward Jenner	Britain
Vaccine, measles	1963	Enders	USA
Vaccine, meningitis	1987	Gordon, et al. Connaught Lab	USA
Vaccine, polio	1954	Jonas Salk	USA
Vaccine, polio- oral	1960	Albert Sabin	USA
Vaccine, rabies	1885	Louis Pasteur	France
Vaccine, smallpox	1796	Jenner	Britain
Virology	1892	Ivanovski & Bajernick	USSR, Netherland
Vitamin A	1913	McCollum and M. Davis	USA
Vitamin B1	1936	Minot & Murphy	USA
Vitamin C	1919	Froelich Holst	Norway
Vitamin D	1925	McCollum	USA
Vitamins K	1938	Doisy Dam	USA
Western Scientific Therapy	460-370 BC	Hippocrates	Greece
Yoga	200-100 BC	Patanjali	India

Matter Facts

Lowest Melting Point Since Mercury melts at -38.8°C (-38°F), it is liquid at room temperature. Mercury is used in thermo-meters because it expands as it is heated.

Highest melting point The temperature must be $3,652^{\circ}\text{C}$ ($6,606^{\circ}\text{F}$) before carbon will melt-two-thirds as hot as the sun's surface.

Rarest elements Astatine is the rarest element on Earth; rhodium is the scarcest metal in the world-just 3 tonnes (2.9 tons) are mined every year.

Heaviest metal A 33-cm^3 (13-in^3) cube of osmium weighs 640 kg (1,411 lb)-equivalent to ten people each weighing 64kg

Acids and Alkalis

The acid or alkali (Or base) content of a substance is measured in pH (potential Hydrogen) on a scale of 0-14. Acids dissolve in water to form sharp-tasting solutions, like lemon juice. Alkalis dissolve in water to form soapy solutions: Substance (pH) - Hydrochloric Acid (Acid) 0, Car battery acid 1.0, Lemon juice 2.4, Apple 3.0, Vinegar 4.0, Rainwater 5.6, Milk 6.6, Pure water Neutral 7.0, Human blood 7.4, Sea water 7-8, Baking soda 8.5, Caustic Soda (Alkali) 14.0

Colours of the spectrum

Violet Indigo Blue Green Yellow Orange Red

Formulae

a = length of one side, b = length of base, h = length (perpendicular height), r = radius

Volume: Cube or cuboid $h \times b \times a$ • Cylinder $\pi \times r^2 \times h$ • Sphere $4 \times \pi \times r^3 / 3$ • Cone $\pi \times r^2 \times h / 3$ • Pyramid $a \times b \times h / 3$

Area: Circle $\pi \times r^2$ • Rectangle $b \times h$ • Parallelogram $b \times h$ • Triangle $1/2 \times b \times h$ • Trapezium $1/2 \times (a + b) \times h$ • Cube (surface

area) $6 \times b \times h$ • Surface of radius r (surface area) $4 \times \pi \times r^2$ • Cylinder (surf. area) $(2 \times \pi \times r \times h) + (2 \times \pi \times r^2)$ • Cone (area of curved surf.) $\pi \times r \times (r^2 + h^2)$

Others: Velocity = distance/time • Acceleration = velocity/time • Momentum = mass \times velocity • Force = mass \times acceleration • Pressure = force/area • Work = force \times distance • Moment of Inertia = mass \times radius of gyration • Modulus of elasticity = stress/strain • Surface tension = force/length.

Gauge and Bore diameter (mm):

6 = 23.34; 10 = 19.67; 12 = 18.52; 14 = 17.60; 16 = 16.81; 20 = 15.90

Carat: is a measure of fineness for gold equal to 1/24 part of pure gold in an alloy. 24 = Pure gold; 18 = 1/4 alloy. For precious stones, it is equal to 200 mgms or 3.086 grains troy.

Quick Conversion Table

Imperial to	metric multiply by	
Length	inches	cm 2.54
	feet	m 0.3048
	yards	m 0.9144
	statute miles	km 1.6093
	nautical miles	km 1.852
Area	sq. inches	sq. cm 6.4516
	sq. feet	sq. cm 0.0929
	sq. yards	sq. km 2.5899
	acres	hectares 0.4047
	sq. miles	sq. km 2.5899
Volume	cu. inches	cu cm 16.3871
	cu feet	cu m 0.0283
Weight	ounces (avoirdupois)	grams 28.3495
	ounces (troy)	grams 31.1035
	pounds	kg 0.4536
	tons (long)	tonnes 1.016
Capacity	pint UK	ltr 0.5682
	pint US	ltr 0.4732
	gallons UK	ltr 4.546
	gallons US	ltr 3.7854
	fl. ounces UK	ltr 0.0284
	fl. ounces US	ltr 0.0296

THE COSMIC

PART

05

The Universe

People's concepts of what constitutes the Universe have changed drastically over the ages. At first the Earth was put at the centre of the Universe. Then Earth was found to be just a planet, and thought Sun as the centre. Soon Sun was found to be an ordinary star, which was part of galaxy, and man began to think that galaxy was the Universe. Now scientists believe that there are many galaxies and that clusters of many galaxies make our Universe. Continuing this trend of astronomical upsizing, the latest speculation among astronomers is that maybe the Universe we know is only one of the many - and that there may be many Universes, making a vast Superuniverse.

The Universe was called COSMOS, as opposed to Chaos, when it was first conceived of as an orderly unit, and the studies relating to the Cosmos were known as Cosmogony or Cosmology. Today we speak of them as Space Sciences.

Ancient Cosmology

Ancient civilisations: They had different ideas about what the universe was like. But obviously, people started stargazing long before the early civilisations grew up. When they learned how to write and read they started recording what interested them.

Key Dates: 4000 BC Chinese astronomers record eclipse; 2500 BC Great Pyramid constructed; 2000 BC lines of standing stones at Carnac and Stonehenge erected at Salisbury by megalithic observers.

The Babylonians established a calendar based on the regular 29 1/2 day cycle of the phase of Moon. Since 3000BC they used zodiac signs similar to what is in use today. The

ancient Egyptians while building the pyramids aligned them to the patterns in the constellation Orion.

The Greek Astronomers: Astronomy grew in leaps and bounds when many astronomers, philosophers, starwatchers started actively participating and making detailed records. Perhaps the greatest Greek astronomer was Hipparchus of 150 BC, who compiled a catalogue of the positions of more than 800 stars besides establishing a magnitude scale to measure star brightness, still in use.

Key Dates: 585 BC Thales predicts eclipse; 400BC Meton sketches phases of Moon; 200BC Aristarchus proposes Sun-centred universe and Eratosthenes of Cyrene measured the circumference of the Earth, close to present calculations; 150BC Hipparchus compiles a star catalogue and Ptolemy writes *Almagest*.

Aristotle, meanwhile concluded the shape of the Earth was spherical and not flat as commonly believed by masses.

The Arab Astronomers: In c. 820 *Almagest* got translated to Arabic; c. 1428 Ulugh Beigh founds observatory in Samarkand. During those times the famous Arab ruler of Iraq, Caliph Harun Al-Rashid, patronised arts and science.

In Renaissance Europe, the natural scientists and philosophers questioned ancient beliefs, antagonising the church and risking the wrath of the church. However, a moderate Polish priest named Nicholas Copernicus wrote in his book '*De revolution orbium coelestium*' that Sun is the centre of the Universe, marking the beginning of modern astronomy. In 1576 Tycho Brahe, a Danish

lawyer, established Uraniborg observatory and made systematic observations with unprecedented accuracy.

The Indian Astronomers: Aryabhata, Bhaskaracharya, Varahamira, etc.

Outer Space

The difference between space and outer space is that space means the whole Universe including the Earth while outer space means all space other than the Earth. In fact, outer space begins where the earth's atmosphere ends and extends on and on in all directions.

Outer space is vast. Our terrestrial units of measurement hardly suit its dimensions. So we have evolved new units of measurement like the Light Year and the Astronomical Unit (AU). A Light Year is the distance covered by light in one year in vacuum travelling at a speed of 299,792.5 km per second. The solar system is less than one light-day (the distance light travels in one day) across.

Astronomical Unit represents the mean distance between the Sun and the Earth. Distances within the solar system are measured in AU. Light travels this distance in 8.3

min approx. AU in terrestrial measurements is 149,597,870 km. The distance between the Sun and Pluto, the outermost planet, averages 39 AU. In terms of space dimensions, a Light Year is made up of about 60,000 AUs.

Astronomy

The word is from the Greek *astron* meaning Star (and *nautes* meaning sailor). Astronomy is the scientific study of the heavens and all that is therein. It is not to be confused with Astrology-which lacks any kind of scientific basis and encompasses the belief that heavenly bodies affect human lives.

Modern astronomy began with Italian astronomer Galileo. In 1609 Galileo heard of the telescope made by the Dutchman Hans Lippershey. He improved upon it and constructed an instrument that could magnify upto thirty diameters. It was this instrument, a refractor telescope, that heralded the era of optical astronomy. Galileo made several startling discoveries. He found that the moon's surface is rugged, and that Pleiades is a group of over 40 stars. He discovered four of Jupiter's moons and observed the sunspots.

Inter-Planetary Manned Mission

After the International Space Station (ISS) is completed, NASA will take up the challenge of exploration beyond low Earth orbit - to the Moon, to Mars and the Solar system. Taking a step further, NASA is expected to test the new Crew Exploration Vehicle (CEV), now rechristened Ares 1, by 2008. NASA will conduct its first manned mission by 2014. Ares 1 will also transport astronauts and scientists to the ISS after the Shuttle fleet is retired.

Ever since Neil Armstrong and Buzz Aldrin became the world's first two human beings to land on the Moon in July 1969, NASA followed it up by sending ten more astronauts to moon. However, for more

than three decades now, no human being has visited the Moon. NASA aims to use Ares 1 for returning astronauts to the Moon by 2020 and use the CEV as a stepping stone for sending human beings to Mars and beyond. The goal of this second wave of lunar exploration will be living and working on the moon for increasingly extended periods and to develop new technologies (for example, extraction of Oxygen from the lunar soil), and extract minerals which will reduce costs. An extended human presence on the moon or voyage to Mars will prepare mankind for the ultimate though it will take three months to a three-day journey to Mars.

In 1668 Newton invented a new instrument, the reflector telescope. In a refractor telescope, light is gathered by a large objective lens. In a reflector telescope a large curved mirror is used for this purpose. Both types of optical telescopes are still in use. The invention of the optical telescope was an epoch making event in the history of astronomy.

Key dates: 1609- Galileo pioneers telescopic observation, Kepler publishes his first laws of planetary motion; 1672 Newton demonstrates his reflecting telescope, 1666 Newton formulates his law of gravitation; 1675 Greenwich Observatory founded in London; 1687 Newton's "Principia" published; 1781 Herschel discovers Uranus; Charles Messier publishes his catalogue of nebulae and binary stars in 1802; 1838 Friedrich Bessel measures the distance to a star; 1846 Johann Galle discovers Neptune; 1905 Einstein publishes his special theory of relativity and general theory of relativity in 1916; 1925 Hubble discovers galaxies outside our own; 1930 Clyde Tombaugh discovers Pluto.

Radio Astronomy came into being in the most unexpected manner. In 1931, Karl Jansky, a US radio engineer working with Bell Laboratory, noticed a steady stream of radiation coming in from outer space. However, an amateur radio operator in the U.S., Grote Reber, set out by himself to learn more about this extraterrestrial phenomenon. In 1937, he built the world's first radio telescope—a 9.58 m parabolic dish—and set it up in his backyard at Wheaton, Illinois. In 1940 he produced a radio map of the sky, the first of its kind in the world. Thus a new branch of astronomy was born—Radio Astronomy.

The radio telescope is in many ways analogous to the optical telescope. It consists of a large metal reflector fitted with an antenna. The metal reflector collects and focuses radio energy on to the antenna which can be tuned to any desired frequency. Of all the invisible rays streaming in from outer space, only radio

waves reach us at ground level, through the so-called radio-window. Other rays are blocked by the atmosphere. Radio astronomers pick up radio waves from outer space with specially designed radio telescopes. The signals are amplified billions of times before fed into the computer which analyses them and display the image as False-colour radio pictures.'

Radar astronomy was born in 1940, when a Hungarian physicist Zoltan Bay sent out a beam of microwaves to the moon and recorded the echo.

Satellite astronomy: When Explorer-1 was launched in 1958 by US with a special instrument two doughnut shaped regions of intense radiation around the Earth (called Van Allen Belt) were discovered. This was how satellite astronomy started.

The invisible rays given out by stars and galaxies belong to the same family of rays. They are all electromagnetic waves, and form what is called the electromagnetic spectrum. The crucial difference between them is that they have different wavelengths (the waves include X-rays, ultraviolet rays, visible light, infrared rays, microwaves and radio waves).

Now satellites have made it possible to study astral phenomena from two levels—from the ground and from above the atmosphere. This has led to the emergence of many specialised fields in astronomy—X-ray, ultra-violet, gamma ray and infra-red.

The Hubble Revolution: The 11 tonne, Hubble Telescope, built at a cost of US \$ 1.5 billion, is the most powerful optical tele-

Planet slang

Ground breaking = new and different;
Earth shattering = it's revolutionary;
Down to earth = no nonsense, unpretentious;
Down and dirty = no frills, basics;
Global = overall; all encompassing.

scope ever developed and launched in 1990. The New Millennium Probe series are the successors to Hubble Telescope.

Galaxies

Galaxies are huge congregations of stars held together by force of gravity. They are so big that they are also called 'island universes'. Studies of distant spaces with optical and radio telescopes indicate that there may be about 1.3 trillion galaxies in the visible Universe. Galaxies seem to be scattered in space. Galaxies tend to be grouped together into clusters, and some clusters appear to be grouped into superclusters. All the galaxies we look at will display red shift in their spectra, indicating they are moving from from us. Current data suggest that the galaxies are moving apart at the rate of 50-100 kps for every million parsecs of distance.

structural analysis of the known galaxies brings out three major forms—spiral, optical, and irregular. Spiral galaxies have central nucleus with great spiral arms swirling round it. The Milky Way and the Andromeda Galaxy belong to this group. A special type of spiral galaxies is what are called barred spirals which have a central bar as a nucleus. The spirals comprise some 10% of the galaxies so far known. Elliptical galaxies show purely elliptical shape without any spiral arms. They range in shape from spherical ellipticals to extremely saucer-shaped ones and account for about 17% of the known galaxies. Irregulars, as the name suggests, show no definite geometric pattern or shape.

The Milky Way The Milky Way is our home galaxy. Our galaxy forms part of a group of about 24 galaxies travelling through space together. On a grander scale, this group forms part of bigger cluster of 1000s of galaxies.

A peculiar feature of this galaxy is a bright band of light that runs almost in a perfect circle through it. Actually it is made up of

Largest Telescopes

- **Refracting (lens) Optical:** Yerkes Observatory - 1m at Williams Bay, WI, U.S.A.
- **Reflecting (mirror) Optical:** Keck - 10m on Mauna Kea in Hawaii (segmented mirror; 2 equal-size telescopes).
- **Space Telescope:** Hubble Telescope - 2.4m.
- **Fully Steerable Radio Dish:** Robert C. Byrd Green Bank Telescope 100m in West Virginia, USA.
- **Single Radio Dish:** Arecibo Observatory- 305m in Puerto Rico.

Radio Interferometer: 10 telescopes of the Very Long Baseline Array, scattered from Hawaii to the Virgin Islands with a resolution equal to a radio dish of 8000 km.

millions of scintillating stars which seen from far away, seems to be placed in close proximity to one another. This river of light is known as the Akash Ganga or Milky Way – the term is now applied to the galaxy as a whole.

The Milky Way is a spiral galaxy. The main body is a disc 100,000 light years across with a globular nucleus of about 16,000 light years in diameter (thick at its centre) and far-stretching spiral arms (in one of which our solar system is located). The Milky Way consists of hundreds of billions of stars rotating about its centre in a stately average period of some 230 million years.

Our galactic nucleus is about 32,000 light years from the Sun. It appears to be a rotating disc of gas. In this rotating disc massive activities are going on. Here, new stars are being born continually. The area is already crowded with full grown stars.

So where is Andromeda? Until recently the Great Nebula in Andromeda, was thought to be part of our Milky Way Galaxy. We now know that Andromeda is an Ex-

as a few hours to as long as 1000 days or more. Generally speaking, the slower the bright-dull-bright cycle, the higher the luminosity.

Quasars are powerful quasi stellar sources of radio radiations.

Pulsars are variable stars which emit regular pulses of electro-magnetic waves of very short duration.

Black Hole

Strange things happen to a star at the end of its life if its mass is more than 3-times the mass of the Sun. It will collapse, becoming more and more compact. The collapse continues until the star becomes so dense that nothing, not even light, can escape from its gravity. Hence the object is dark and can't be viewed directly. According to General Relativity, bodies of matter curve space. If the body of matter was very dense (tons of matter packed into a small space), it convulses space into an infinitely deep chasm, called a black hole. John Wheeler, a US physicist, first used the term 'black hole' for a completely collapsed star at a meeting at the Institute for Space, NY, in 1967.

Size of the Universe

No one knows whether the Universe is finite or infinite in size. Albert Einstein described the Universe as 'finite but unbound,' meaning that the frontiers cannot be observed even though they are definitely there.

Age of the Universe

Cosmology, the science of the large scale structure of the Universe, came of age in the 20th century when Einstein produced in 1915 the general theory of relativity which had sufficient maturity to construct mathematical models of the Universe. The answers to questions about the age of the Universe in the 1930s and '40s was based on Edwin Hubble's

Space Accidents

1960: R-16- Soviet 2-stage rocket exploded in Tyuratán on the launch pad, killing the chief and ground staff;

1966: Gemini 8 - got out of control after docking with orbiting spacecraft Agena, but managed to return alive;

1967: Apollo 1-Three astronauts undergoing training in the command module were killed following a huge fire and asphyxiation. Soyuz 1- Cosmonaut Vladimir Komarov while exiting his failed space mission crashed on to the ground at high speed after both the parachutes failed to open;

1969: Soyuz 5- While preparing for earth re-entry the equipment module not only failed but blocked the heat shield making it out of control. Though it was a near-fatal landing, Cosmonaut Volynov ejected out of the module;

1970: Apollo 13 suffered an oxygen tank explosion losing its main power supply while on moon mission. The crew was rescued using the lunar lander;

1971: Soyuz 11- Three Cosmonauts died while trying to separate the re-entry capsule and the spacecraft through an explosion which resulted in leakage of oxygen chamber;

1980: A Vostok rocket exploded on the launch pad while refueling, killing 50 at Plesetsk Space Centre, Russia;

1986: Space Shuttle Challenger: six astronauts including a high school teacher died in a fuel tank explosion;

2003: Columbia Shuttle broke up on re-members included.

Hubble's successor

The James Webb Space Telescope (JWST) is the crown jewel of NASA's space-science program for the next decade. Its mission is to uncloak the invisible structures of the early universe. With a gold-coated primary mirror that is seven times larger than Hubble's, besides instruments sensitive to infrared radiation, JWST is intended to answer questions raised by Hubble's galaxy-stuffed deep-field sky surveys. It will peer at what lies beyond.

The telescope's most impressive feature is sheer size. At the observatory's

base is a five-layer Sun and micrometeorite shield that is as large as a tennis court. Perched above, panels fit together like flower petals to render the telescope's 6.5 meter prime mirror. No launch vehicle is big enough to carry the telescope as it is, so it's designed to unfold in orbit, as in origami.

The JWST was displayed in Orlando, Florida, where the International Society of Optical Engineering wrapped up its biannual conference in 2006. The project cost is \$4.5 billion and is scheduled for launch in 2013.

own measurements of his constant. The current estimate of the age of the Universe is about 13 billion years. The 60 odd- years following Hubble's original findings have seen numerous revisions of the constant. It was in the midst of this chaos that the Hubble space telescope was launched in 1990, rightly chose as its key project – the measurement of the Hubble constant. The space telescope has

a decided edge over ground-based telescope in imaging and resolution of very faint objects.

The Hubble's constant as measured by the space telescope was on the high side implying a rather young Universe – also depending on what theoretical mode is accepted. Scientists say the Universe could be just 8 billion years old if the Hubble constant is precisely 80.

The Solar System

The Solar System is centred on the Sun. It consists of a star called the Sun and all the objects that travel around it. The Solar System includes: • 8 planets (*Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune*) and 4 Dwarf planets - *Pluto, Charon, Eris, Ceres* - along with the numerous satellites that travel around most of them • planet-like objects called *asteroids* (hundreds of asteroids) • chunks of iron and stone

called *meteoroids* • bodies of dust and foreign gases called *comets* (thousands of comets); and • drifting particles called *interplanetary dust* and electrically charged gas called *plasma* that together make up the interplanetary medium.

Interplanetary Space The whole solar system by volume appears to be an empty void. This vacuum of "space" comprises the interplanetary medium. It includes various forms

nents: interplanetary dust and interplanetary gas. Interplanetary dust consists of microscopic solid particles. Interplanetary gas is aenuous flow of gas and charged particles, mostly protons and electrons—plasma—which stream from the Sun, called the solar wind. The solar wind can be measured by spacecraft, and it has a large effect on comet tails. It also has a measurable effect on the motion of spacecraft, communication systems on Earth, electrical transmission, etc. The speed of the solar wind is about 400 kilometres per second in the vicinity of Earth's orbit. The point at which the solar wind meets the interstellar medium, which is the "solar" wind from other stars, is called the *heliopause*—is an imaginary boundary theorised to be roughly circular or teardrop-shaped, where the Sun's influence ceases, at perhaps 100 AU from the Sun. The space within the boundary of the heliopause, containing the Sun and Solar System, is referred to as the *heliosphere*. The solar magnetic field extends outward into interplanetary space; it can be measured on Earth and by spacecraft. The solar magnetic field is the dominating magnetic field throughout the interplanetary regions of the solar system, except in the immediate environment of planets which have their own magnetic fields.

Kuiper Belt

The Kuiper Belt is a disk-shaped region past the orbit of Neptune roughly 30 to 100 AU from the Sun containing many small icy bodies. It is named after Gerard Kuiper, who proposed its existence in 1951. This huge spherical "cloud" is now called the Oort Cloud, after Jan Oort, because of billions of comets orbiting the Sun much beyond the outermost planet. The Oort Cloud may account for a significant fraction of the mass of the solar system.

Kuiper Belt objects & the Oort Cloud Jan Oort's orbital calculations done in 1950

SOLAR DATA	
Distance from the Earth*	149.6 million km
Absolute Visual Magnitude	4.7 ⁴
Diameter	1,394,000 km
Core Temperature	15 000 000 K
Photosphere Temperature	5770 K
Rotation as seen from the Earth	
(at the Equator)	25.38 days
(near the poles)	33 days
Chemical Composition	
Hydrogen	71%
Helium	26.5%
Other Elements	2.5%
Age	4.5 billion years approx.
Expected lifetime of a normal star	10 billion years approx.
Mass	330,000x Earth's mass
* The mean distance from the Earth to the Sun (150 million km) translated into flying hours means that a jet aircraft capable of 1000 km/hr would need more than 17 years of non-stop flying to reach the Sun:	

showed that a huge spherical "cloud" (now called the Oort Cloud) of perhaps a trillion or more comets orbit the Sun far beyond the orbit of Pluto from about 30,000 AU to a light-year or more. This is the source of the long-period comets. It is now considered to be source of the short-period comets of less than 200 years. Occasionally the orbit of a Kuiper Belt object will be disturbed by the interactions of the giant planets in such a way as to cause it to cross the orbit of Neptune. There are presently few known objects orbiting between Jupiter and Neptune. The IAU has designated this class of objects as Centaurs. These orbits are not stable and their destiny is not known. Those that didn't escape entirely formed the distant Oort Cloud. Small objects formed farther out had no such interactions and remained as the Kuiper Belt. Several Kuiper Belt objects have been discovered recently. They appear to be small icy bodies. It is estimated that there are at least 35,000 Kuiper Belt objects greater than 100

km in diameter, which is several hundred times the number (and mass) of similar sized objects in the main asteroid belt.

Origin

The Solar System originated in a primitive solar nebula—a rotating disc of gas and dust. It is from this rotating disc that the planets and the rest of the Solar System evolved. The Solar System is also tucked away in a corner of the Milky Way at a distance of about 30,000 to 33,000 light years from the centre of the galaxy.

The Sun contains 99.85% of all the matter in the Solar System. The planets which condensed out of the same disk of material that formed the Sun, contains only 0.135% of the mass of the Solar System.

Jupiter contains more than twice the matter of all the other planets combined. Satellites of the planets, comets, asteroids, mete-

oroids, and the interplanetary medium constitute the remaining 0.015%.

[Sun- 99.85%;
Planets- 0.135%;
Comets - 0.01%;
Satellites- 0.00005%;
Meteoroids- 0.0000001%;
Interplanetary medium- 0.0000001%]

The Sun

The Sun is one of more than 100 billion stars in the giant spiral galaxy called the Milky Way. The Sun is the centre of the Solar System. Its mass is about 740 times as much as that of all the planets combined. The huge mass of the Sun creates the gravitation that keeps the other objects travelling around it in an orderly manner.

The Sun continuously gives off energy in several forms—visible light; invisible infrared, ultra-violet, X-rays and gamma rays, cosmic

Droids on the ISS

Tiny satellites are a hot new idea in space exploration. Instead of launching one big, heavy satellite to do a job, why not launch many little ones? Droids can orbit Earth in tandem, each doing their own small part of the overall mission. If a solar flare zaps one satellite: no problem! The rest can close ranks and carry on. Launch costs are reduced, too, because tiny satellites can be packed alongside larger payloads, getting to space almost free of charge. Of course, there is a problem: flying in formation is trickier than it sounds and getting a group of orbiting satellites to do a formation is extremely hard.

NASA has already sent one of the three droids to the ISS. The initial challenge was to design a small, roughly spherical robot that could float aboard the ISS and manoeuvre using compressed CO₂ thrusters. The project, called SPHERES

(Synchronised Position Hold Engage Reorient Experimental Satellite), serves as a test bed for trying out experimental software to control clusters of satellites.

The first SPHERE arrived on the ISS in April 2006 tucked inside a Progress supply rocket. Eventually two more SPHERES, differentiated by colour, would go on the future shuttle missions. "Red" is already busy. Scientists have commanded it to do a variety of manoeuvres—loops and turns. Astronauts tried to trick Red by causing one of its thrusters to stick "on." The robot diagnosed the fault, turned the thruster off, and returned to station-keeping.

In the future, NASA may use the technique to assemble a moon-ship piece by piece in Earth orbit. The software designed to control small satellites could just as well be used to manoeuvre the pieces of a spaceship together.

Solar System: As we know

Planet Superlatives

- 1. Largest planet: Jupiter
- 2. Most massive planet: Jupiter
- 3. Fastest orbiting planet: Mercury
- 4. Longest (synodic) day: Venus
- 5. No Moons: Mercury, Venus
- 6. Closest to the sun: Mercury
- 7. Farthest from the sun: Neptune
- 8. Largest moon: Titan
- 9. Highest mountain: Olympus Mons (Mars)
- 10. Strongest magnetic fields: Jupiter

Dwarf Planets

- 1. Largest: Pluto
- 2. Second largest: Eris
- 3. Third largest: Haumea
- 4. Fourth largest: Makemake
- 5. Fifth largest: Ceres
- 6. Sixth largest: Sedna
- 7. Seventh largest: Orcus
- 8. Eighth largest: 2003 UB313
- 9. Ninth largest: 2003 EL86
- 10. Tenth largest: 2003 QX67

- 1. Largest: Jupiter
- 2. Most massive planet: Jupiter
- 3. Fastest orbiting planet: Mercury
- 4. Longest (synodic) day: Venus
- 5. No Moons: Mercury, Venus
- 6. Closest to the sun: Mercury
- 7. Farthest from the sun: Neptune
- 8. Largest moon: Titan
- 9. Highest mountain: Olympus Mons (Mars)
- 10. Strongest magnetic fields: Jupiter

The Nearest Stars

Star	Distance (light years)
1. Proxima Centauri	4.24
2. Alpha Centauri A & B	4.34
3. Barnard's Star	5.97
4. Wolf 359 (CN Leonis)	7.80
5. Lalande 21185	8.19
6. UV Ceti A & B	8.55
7. Sirius A & B	8.67
8. Ross 248 (FH Andromedae)	10.37
9. CX 60C Andromedae	11.22
10. 61 Cygnus A & B	11.22

Total Solar Eclipses 2002-2010

Date	Visible from parts of
4 Dec 2002	S. Africa, Australia
23 Nov 2003	Antarctica
8 Apr 2005	S&C Pacific, C. America
29 Mar 2006	C. Atlantic, W&N Africa, C. Asia
1 Aug 2008	Greenland, N&C Asia
22 Jul 2009	S. Asia, C. Pacific
11 Jul 2010	S. Pacific

Uranus

Diameter: 52,096 km.

Moons: 27.

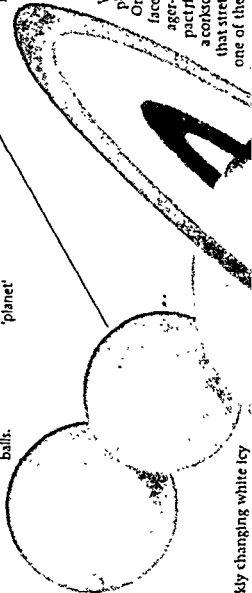
Density: 1.32g/cm cube
Average distance to the Sun(km): 2,852.8 million
Time to orbit the Sun: 84.01 years.

Watery Uranus is the only planet that lies on its side. One pole, then the other, faces the Sun as it orbits. Voyager-II found nine dark, compact rings around the planet and a corkscrew-shaped magnetic field that stretches millions of kms. It is one of the coldest With an average

Ceres, discovered in 1801, the first asteroid discovered in the asteroid belt between Mars and Jupiter, to be considered as a 'planet'

Eris (2003 UB313 / Xena) Nicknamed Xena, Diameter : 2,397 kms (approx), it is slightly bigger than Pluto - an icy body that resides in the Kuiper Belt - with thousands of floating ice-balls.

Charon, largest of the three moons of Pluto, is a large icy body in the Kuiper Belt - amongst thousands of floating bodies - beyond Neptune.



Neptune

- 1. Largest: Jupiter
- 2. Most massive planet: Jupiter
- 3. Fastest orbiting planet: Mercury
- 4. Longest (synodic) day: Venus
- 5. No Moons: Mercury, Venus
- 6. Closest to the sun: Mercury
- 7. Farthest from the sun: Neptune
- 8. Largest moon: Titan
- 9. Highest mountain: Olympus Mons (Mars)
- 10. Strongest magnetic fields: Jupiter

• • • Diameter: 141,968 km.
Moons: 60. (4 large ones—
Ganymede, Callisto, Io, Europa)
Density: 1.33 g/cm cube
Average distance to the sun: 772.8
million km.

Time to orbit the sun: 11.86 years.

Two Pioneer space probes photographed the Great Red Spot on the solar system's largest planet. Voyagers 1 and 2 later showed it is an enormous eddy in the turbulent cloud cover. They also spotted dusty rings, three new moons and volcanoes on the Moon, Io.

Mars

Diameter: 6,755.2 km.

Moons: 2. Phobos, Deimos

Density: 3.93 g/cm cube

Average distance to the Sun: 225.6 million km.

Time to orbit the sun: 687 days.

The Viking probes or pathfinders failed to find any sign of life. Beneath its thin atmosphere, Mars is barren, covered with pink soil and boulders.

Long ago it was more active: the surface is marked with dormant volcanoes and deep chasms where water once freely flowed.

Earth

Diameter: 12,739.2 km.

Moons: 1.

Density: 5.52 g/cm cube.

Average distance to the sun: 149.8 million km

Time to orbit the sun: 365.30 days.

Estimated Weight (mass)

(5,940,000,000,000,000,000 metric tons)

Estimated Age 4.5 billion years

Surface Area (510,066,000 sq km)

The only planet in the solar system to support life.

Venus

Diameter: 12,032 km.

Moons: none.

Density: 5.24 g/cm cube

Average distance to the sun: 107.52 million km.

Time to orbit the sun: 224.70 days.

Asteroids

A recent estimate is that there may be well over 40,000 asteroids orbiting the Sun.

Annual Major Meteor Showers

Name	Dates of Hourly rate maximum
Quadrantids	3-4 Jan
Lyrids	21-22 Apr
Eta Aquarids	5-6 May
Delta Aquarids	28-29 Jul
Persheids	12-13 Aug
Orionids	22 Oct
Taurids	4 Nov
Leonids	17-18 Nov
Geminids	13-14 Dec

Mercury

Diameter: 4,849.6 km.

Moons: none.

Density: 5.43 g/cm cube

Average distance to the sun: 57.6 million km.

Time to orbit the sun: 87.97 days.

Tiny Mercury, slightly larger than Earth's moon, races along its elliptical orbit at 176,000 km per hour—a speed that keeps it from being drawn into the sun's gravity field. The cratered planet has no atmosphere; days are scorching hot and nights, frigid. It has the greatest temperature extremes, ranging from -200°C to 430°C. Its gravity is very weak (compared to Earth).

Sun

Diameter: 1,384,000 km.

Age: 4.5 billion years.

Planets: 8

Dwarf planets: 4. Pluto, Charon, Eris, Ceres

Density: 1.41 g/cm cube

A rather ordinary, middle-age star,

the gaseous sun may reach a temperature of 15.4°C million degrees

celsius at its core.

Diameter: 119,206 km.

Density: 0.69 g/cm cube

Average distance to the sun: 1,417.6 million km.

Time to orbit the sun: 29.46 years.

Second largest planet of the Solar System. Voyager 1 found that the celebrated rings of the golden giant Saturn are composed of thousands of rippling, spiraling bands of icy rock and dust. Just 200m thick and 270,000 km in diameter. The moon Titan has a nitrogen atmosphere and hydrocarbons—the necessities of life—but no signs of Titanites.

disappear. Gases often shoot up violently from the surface.

Solar activity has been observed to follow a 11-year cycle. Owing to the Sun's rotation, the solar wind travels in spirals and carries with it magnetic fields. The Earth's magnetic field—the magnetosphere—acts as a shield against the ever-blowing solar wind and deflects it away from the Earth. Nevertheless, particles of solar wind sometimes pierce the magnetic shield and enter the upper atmosphere, where, like the solar flares, they cause auroral displays.

The solar wind distorts the shape of the magnetosphere. The magnetosphere extends to a distance of 64,000 km above the Earth—10 times the radius of the Earth. On the part of the Earth exposed to the Sun (the sunlit side), the solar wind sweeps along the magnetosphere past the Earth. On the other side of the Earth (the night side), the solar wind converges again and compresses the magnetic field into a plume or tail, more or less like what it does to comets. The tail thus formed extends to over 6 million km on the night side of the Earth.

Sunspots are dark patches noticed on the surface of the Sun. They appear dark because they are cooler (around 1500°C) than the surface of the Sun which has a temperature of about 6000°C. The largest spot ever measured (April, 1974) covered 18,130 million sq kms or approximately 0.7 % of the Sun's visible surface. The life periods of these spots also vary. They may last from a few hours to many weeks.

Polar Auroras are two auroras, the Aurora Borealis or Northern Lights and the Aurora Australis or Southern Lights. These are lights that sweep across the sky in waves or streamers or folds. They are very often multi-coloured and provide one of the finest spectacles in nature. They occur in the Arctic and the Antarctic regions respectively. But the

New Orleans in America and the Southern Lights as far north as Australia.

The magnetosphere is the earth's magnetic shield. It was at first called the *Van Allen Belts* after the American physicist, James Van Allen who discovered them in 1959. Van Allen, in analysing the data from the earlier Explorer and Pioneer rockets found two belts of high intensity radiation in the upper atmosphere. Pioneer 12 later showed that these belts were a part of a large band of radiation called the magnetosphere. It extended far out to about 64,000 kilometres from the Earth's surface.

The Planets

The planets are large celestial bodies in orbit around a star, composed of rock, metals and gases. In the Solar System, the inner planets are Mercury, Venus, Earth and Mars. The Earth is the largest of the inner planets and the densest of all planets. All the inner four planets are dense rocky bodies and are collectively called *terrestrial planets* (Earth-like). They appear to chiefly consist of iron and rock.

The outer planets, Jupiter, Saturn, Uranus and Neptune are very big (sometimes called *giant planets*), with large satellite families. They are composed mostly of hydrogen, helium, ammonia and methane. These planets are called Jovian, after Jove, the Greek name for Jupiter, because they resemble Jupiter in many aspects. The two largest planets, Jupiter and Saturn send out radiation. Jupiter's radio waves are so strong that they can be picked up on Earth by radio telescopes. All of them rotate furiously, have dense atmospheres and consist of far lighter elements (contain little iron and rock) than the terrestrial inner planets. The outermost planet Pluto is in a class by itself. It is supposed to be a dense planet like the inner planets, although it is the farthest of the outer planets.

But like the inner planets, the outer planets

sible for the tides on earth. The Moon, being nearer to the Earth than the Sun, exerts a greater influence on the tides. It takes only 1.3 seconds for moonlight to reach the Earth, whereas sunlight takes as much as 8 minutes 16.6 seconds to reach us. This being so, the ratio of lunar and solar power for tide-raising is 11 to 5.

The oldest rocks and soil samples from the Moon are about the same age as the Earth (about 4,600 million years old). The rocks from the maria turned out to be basaltic lava, similar to volcanic rocks found on the Earth.

A surprising finding was, while terrestrial igneous rocks contained only about 1% of titanium, the lunar rocks showed 10 times as much. A few minerals unknown on Earth were found in the mare (dark areas on the Moon basalts. Among these is Armalcolite, a new name derived from the names of the astronauts—Armstrong, Aldrin and Collins and the name of the area Tranquillitis.

The lunar rocks were bone-dry, with no trace of water in any form and no trace of any organic matter. So also, volatile elements (elements with low boiling points) like Sodium, Potassium, Chlorine, Germanium, Lead and Mercury were practically non-existent. The depletion of Sodium and Potassium is significant, because these two are among the most abundant elements found in terrestrial rocks.

Comets

Comets probably derive their name from their tail, as in Latin 'comets' means "long-haired." Comets may originate in a huge cloud called the Oort Cloud that is supposed to surround Solar System. Extremely bright comets such as Hale-Bopp are rare. Not all comets have tails. The tail takes shape only when the comet gets close to the Sun. When first viewed through a telescope the bright head of a comet, called *Coma*, looks like a hazy dot. Sometimes a coma contains a star-like point called a *Nucleus*. The nucleus of a

comet is extremely small. Solar energy warms comet's head as it moves sunward and vapourises the frozen-crystallised gases. These gases stream out and form a spectacular, glowing tail behind the comet's head. As the comet approaches the Sun the solar wind, which consists of high-speed atomic nuclei, protons, and electrons, sweeps cometary gases away from the Sun, producing a straight tail of up to 150 m kms in length. At maximum size the tail may be 250m km in length. The tail attains maximum length and brightness soon after the comet has passed its perihelion. Some comets may become so bright as to be visible even in daylight. Comet tails always point away from the Sun because of the force exerted by solar wind and radiation on the cometary material. If the supply of gases from the nucleus changes, a comet can brighten or fade unexpectedly, making it difficult for astronomers to predict how bright a comet will become. (When the comet approaches the Sun the tail follows the head and when it recedes, the tail precedes the head.) Sometimes a second tail consisting of dust particles may also appear. This dust tail is shorter and more curved than the gas tail. Some comets have been observed to develop as many as nine tails.

Planet Names

The planets were named after the Roman gods:

Mercury	god of commerce, eloquence, skill
Venus	goddess of spring, bloom, beauty
Mars	god of war
Jupiter	ruler of gods and all men
Saturn	god of agriculture
Uranus	god of heavens
Neptune	god of the sea
Pluto	god of the under world and death

Pluto Downgraded

On August 24 2006, about 2,500 scientists at The International Astronomical Union's (IAU) meeting in Prague adopted historic new guidelines that demoted Pluto - the smallest, and most distant planet, to a secondary category.

The status of Pluto discovered in 1930 by the American Clyde Tombaugh, has been contested for many years.

In the Czech capital, astronomers waved yellow ballot papers in the air, in the IAU vote - and in the process took the historic decision to relegate Pluto.

The need for a strict definition was deemed necessary after new telescope technologies began to reveal far-off objects that rivalled Pluto in size. Without a new nomenclature, these discoveries raised the prospect that textbooks could soon be talking about 50 or more planets in the Solar System.

The scientists agreed that for a celestial body to qualify as a planet, it ...

- must be in orbit around the Sun
- must be large enough that it takes on a nearly round shape
- has cleared its orbit of other objects because its highly elliptical orbit overlaps that of Neptune
- has to dominate its orbit around the Sun in the same way as the other planets.

Pluto will now on be referred to as a "dwarf planet". The critical blow for Pluto came with the discovery three years ago of an object currently designated 2003 UB313. Hubble Space Telescope measured 2003 UB313, also called Xena, in diameter slightly bigger than Pluto: 2390 kms and 2360km respectively. 2003 UB313 now joins Pluto

in the dwarf category, along with Pluto's major moon, Charon, and the biggest asteroid in the Solar System, Ceres.

The Other Definitions:

Dwarf planet: A planet smaller than Mercury (diameter: 4879 kilometres), which is the smallest uncontested planet. It would include the former asteroid Ceres, Pluto Charon and Xena.

Pluton: A planet orbiting beyond Neptune taking more than 200 earth years to circle the Sun. So far, it would include Pluto Pluto's former moon, Charon; and "Xena" (2003 UB313).

Satellite: Anything orbiting a planet, as long as the mutual centre of gravity does not fall outside the planet. It includes several bodies much larger than many planets, such as Jupiter's moon Ganymede (diameter: 526 kilometres).

Small solar system body: Anything orbiting the Sun that's not a planet or a satellite. Most asteroids and comets would be SSSB. Currently they are called minor planets.

Unofficial categories of planet:

Giant planets: Jupiter, Saturn, Uranus and Neptune.

Classical planets: The four giant planets plus the familiar four rocky, terrestrial planets: Mercury, Venus, Earth and Mars.

Dwarf Planets

Pluto	: TNO
Charon	: TNO
2003 UB 313 (Xena)	: TNO
Ceres	: Asteroid

*TNO - Trans Neptune Objects in the Kuiper Belt

side is called Tropic of Capricorn.

There are two times in a year when the Sun furthest North or South of equator: summer solstice, ie, 21 June with longer day time in N. hemisphere or winter solstice, ie, about 22 December with longer night time in the N. hemisphere. Similarly there are two times in year, either around 21 June (spring/vernal equinox) and 22 September (vernal equinox), when the Sun crosses the equator and we have day and night of equal length or duration.

Imaginary lines that run north and south around the globe, from one pole to the other, are called meridians/longitudes. They inform us the degree of longitude, or how far east or west a place is from an imaginary line called the Greenwich meridian or prime meridian (0 degree). 180 degree is called the International Date Line crossing which a date changes.

Inside Earth

Our knowledge of the internal structure of the Earth is derived from studies of earthquakes. The shock waves sent out by an earthquake indicate the physical nature of the regions through which they pass. These studies show that the centre of the Earth is a solid core—the *Inner Core*. The density of this core is about 13 g to the cubic centimetre. The Inner Core is about 1370 km thick and is surrounded by an *Outer Core* of around 2,080 km. The Outer Core appears to be molten.

The Outer Core is surrounded by the Mantle which has a thickness of around 2900 km. The Mantle is topped by the crust of the Earth, which varies widely in thickness—from 12 to 10 km. At the centre or the Inner Core, that is at a depth of some 6,370 km, temperature goes up to some 4,000°C and pressure reaches nearly 4 million atmospheres.

The mantle is important in many ways. It accounts for nearly half the radius of the Earth (2 900 km), 83% of its volume and 67% of its

mass. The movements of the crust plates are powered by the mantle.

Starting at an average depth of from 45 to 56 km below the top surface of the Earth, the mantle continues to a depth of 2,900 km where it joins the outer core. The mantle is a shell of red hot rock and separates the Earth's metallic and partly melted core (both the inner and the outer cores) from the cooler rocks of the Earth's crust.

It is composed of silicate minerals rich in magnesium and iron. The density of the mantle increases with depth from about 3.5 grams per cubic centimetre to around 5.5 grams, near the outer core.

The upper portion of the mantle, about 250 km thick, is called the Asthenosphere. Here the rocks are partially melted, with thin films of liquid distributed between the mineral grains. The red hot nature of the lower mantle and the partially melted nature of the upper mantle (asthenosphere) combine to make the whole mantle plastic or yielding. It is on this plastic base that the top crust of the Earth (of oceans and continents) that is to say, the lithosphere, rests. The lithosphere is distinguished from the asthenosphere by the fact that it is cooler and therefore, more rigid.

The top layer of the lithosphere virtually floats on the asthenosphere. Like other floating bodies the crust seeks an equilibrium riding deeper where it is heavier and rising higher where it is lighter. The mountains on the crust have deep roots of light material to support them and when the load on any part of the crust changes, the surface responds by rising or sinking to restore the equilibrium.

The outer surface of the Earth is divided into 4 spheres:

Lithosphere means the entire top crust of the Earth and includes not only the land surface but also the ocean floor.

Hydrosphere is the water surface which includes the oceans, lakes and rivers.

Atmosphere is the blanket of air that envelops the Earth. It covers both the land surface and the water surface.

Biosphere is the sphere of life which spreads over all the three other spheres.

Seasons

The earth's axis is inclined at an angle of 66.5° to the plane of its orbit. As a result of this, the earth is in different positions while revolving around the sun. During the first half of the year the northern hemisphere tilts towards the sun resulting in the season of summer in the region. During the second half of the year the southern hemisphere tilts towards the sun, and thus experiences summer and the northern hemisphere experiences winter during this period.

The revolution causes the four seasons

(a) **Spring** When the sun is directly overhead the equator (b) **Summer** When the sun is directly over the tropic of Cancer—the North Temperate Zone experiences summer. (c) **Autumn** When the sun returns to the equator, the North Temperate Zone experiences the season of autumn. (d) **Winter** The sun is at the tropic of Capricorn and the north temperate zone experiences winter.

Equinoxes are dates when the nights and days are equal. During these days the sun shines directly over the equator. March 21 is called vernal equinox and September 23 is called autumnal equinox.

Solstice The time of the year when the difference between the length of days and nights is the largest is referred to as solstice.

On or around June 21, the North Pole tilts towards the sun and the sun shines directly over the tropic of Cancer which is called summer solstice. On or around December 22, the earth is at the opposite end of its orbit, as a result, the South Pole tilts towards the sun and the North Pole away from it. This is called winter solstice.

Eclipses When the light of the sun or the

moon is obscured by another body the sun or moon is said to be in eclipse.

Lunar Eclipse When the earth comes between the moon and the sun, the shadow cast by the earth on the moon results in a lunar eclipse. Lunar eclipse occurs only on a full moon day but not on every full moon day.

Solar Eclipse When the moon comes between the sun and the earth, it causes obstruction of the sun's light when viewed from the earth and is called solar eclipse. A solar eclipse occurs on a new moon day when the moon is in line with the sun. However, solar eclipse does not occur on every new moon day.

Midnight Sun: In the Arctic and Antarctic region around mid-summer when the sun sets, the sun does not go below the horizon throughout the 24 hours. The sun may be seen at midnight too. This is due to the inclination of earth's axis to the plane of orbit. Norway is called the land of midnight sun, seen between May and July. In the Southern hemisphere, the phenomenon is seen in Antarctica.

Lithosphere

The lithosphere is the top crust of the Earth on which our continents and ocean basins rest. It is thickest in the continental regions where it has an average thickness of 40 km and thinnest in the oceans where it may have a maximum thickness of 10 to 12 km.

Mohorovic Discontinuity: An imaginary line that separates Mantle and Crust.

Gutenberg-Wiechert Discontinuity: A separation between the Mantle and the Core.

It constitutes about 1% of the Earth's volume and 0.4% of its mass. Though the lithosphere technically includes both the land mass and the ocean floor it is often used to indicate only the land surface. Regarded thus, the lithosphere forms only 3/10 of the total surface of the Earth. The rest 7/10 is taken up by the oceans.

As we see it today, the topmost portion of the land surface is sand and soil except where

rocky outcrops show. All the sand and much of the soil that we see have derived from ancient rocks.

The contours of the landscape are largely conditioned by the rocky substructure of the lithosphere. Geologically speaking, all materials that make up the crust of the Earth are rocks, whether they are big granite boulders, combustible coal, soft clay or loose fragments of gravel or sand. Rocks which form the substructure of the lithosphere may be broadly grouped into three classes: (i) Igneous rocks (ii) Sedimentary rocks and (iii) Metamorphic rocks.

We know that the face of the Earth, that is, its visible surface has undergone radical changes in the past. Geologists explain these changes as the consequence of the cooling and contraction of the Earth, through thousands of years. This explanation seemed quite unsatisfactory to a German scientist, Alfred Wegener (1880-1930).

In 1915, Wegener published a book *The Origin of Continents and Oceans* in which he advanced the theory of Continental Drift. He theorised that the changes on the Earth surface were mainly due to the shifting of continents.

Continental Drift*

The theory of Continental Drift assumes that the continents plough through the oceans like massive ships.

A. 350 million years ago During the early carboniferous period large continental masses, Laurasia in the north, and Gondwanaland in the south, began drifting towards each other. Britain and much of western Europe lay in equatorial latitudes.

B. 200 million years ago In the late carboniferous period Laurasia and Gondwanaland collided, creating the super-continent

Pangaea, (and a great ocean called Panthalassa) which remained largely intact until late Triassic times. A large gulf called Tethys opened up in the regions we now recognise as the Mediterranean and the Alpine-Himalayan mountain belts.

C. 50 million years ago During the Eocene period the fragmentation of Pangaea was well advanced and continents and oceans began to look as they do today. The Atlantic Ocean widened, the Tethys Ocean narrowed, while the Indian continents isolated and exposed to a northerly drift, was later to collide with the north Asia.

D. Present Day The northward movement of much of the Earth's continental masses continues. Changes since Eocene period include the continued growth of the Atlantic Ocean, the collision of the Indian continent with both Asian mass and the separation of Antarctica and Australia.

E. 50 million years ahead Scientists predict still further widening of the Atlantic Ocean with continued spreading of the Red Sea and an accompanying closure of the Persian Gulf. It seems likely that a new ocean could evolve in the East African rift system and that East Africa and Australia will drift to the position north of the Equator with Antarctica positioned more or less in South-pole.

Plate Tectonics

Plate Tectonics tells us that it is not only the continents that are in motion, but the oceans as well. This is so, because the top crust of the Earth is not a complete single shell of granite and basalt, but a mosaic of several rigid segments, called plates. The theory of plate tectonics explains how the Earth's crust is moving in vast, rigid sections (plates) and is a modern revolution in our understanding of the planet. These plates include not only the Earth's solid upper crust, but also parts of the denser mantle below called *Asthenosphere*, and carry the continents and oceans on their

* The concept of *Continental Drift* was first described by the German geophysicist Alfred Wegener in 1910 and later reinvigorated as the *Theory of Plate Tectonics* in early 1960's.

Solution holes: Rainwater dissolves lime-stones and numerous solution holes are formed. Smaller holes are called the sink holes. Coalescence of neighbouring sink holes into larger hole is called the swallow hole. Further erosion leads to formation of extensive depression called dolines. Extensive dolines is called uvala. Most extensive depressions are called poljes. The disappearance of surface streams through a solution hole is called Blind Valley.

Mesa and Butte: A flat table land with resistant horizontal top and very steep sides. Erosion of Mesas over the years may result in isolated flat-top hills called Buttes.

Siefs: Long narrow ridges of sand lying parallel to the direction of the prevailing winds.

Playa: A temporary lake formed at the desert basin.

Zeugen: In areas which have parallel layers of both hard and soft rocks. After the lower soft portion gets eroded the resistant hard upper rock looks like a table, viz. zeugen.

Deserts

Desert is a part of Earth's surface that is too dry to support plant or animal life and is usually sparsely inhabited or uninhabited by man. Deserts are classified under three categories:

Sub-Tropical (Hot) e.g. Sahara, Arabian (Saudi Arabia, Kuwait, Qatar, UAE, Oman, Yemen), Kalahari (Botswana, S. Africa, Namibia), Australian (Gibson, Gt. Sandy, Gt. Victoria, Simpson and Sturt Stony), Mojave and Sonoran (US-Mexico), Chihuahuan (Mexico, SW US), and Thar (India-Pak) deserts. Here temperature rises as high as 58°C.

Mid-latitude (Temperate) e.g. Gobi (China-Mongolia), Great Basin and Colorado Plateau (US), Patagonian (Argentina), Atacama (Chile), Namib (Namibia), Kara-Kum and Kyzyl-Kum (Uzbek-Turkestan) deserts, Iranian, Taklamakan (China).

High-latitude (Polar/Cold) e.g. Antarctic and Arctic. Here temperature falls as low as 88°C and below in polar deserts. They receive less than 250 mm rainfall annually.

Grasslands

Grasslands are areas that are too dry to support green forests, but not dry enough to be a desert. Most commonly grasses grow here. Some grasslands: the Great Plains/ Prairies (US, Canada); Steppes (Europe- Asia); Pampas (Argentina), Savannas (Cent. & S. Africa), Campos, Catingas, Llanos, Selvas, Gran Chaco (Brazil); Velds (S. Africa); Downs (Australia).

Islands

Islands take a large mass of land, the biggest 16 of them accounting for as much as 56 million sq. kms—greater than the area of the continent of Europe. The smaller islands count by the thousands. Islands are broadly divided into four types, continental, oceanic, tectonic and coral.

Continental Islands are those islands that rise from the continental shelf, like the British Isles or Newfoundland. These islands have the same geological structure as the continents to which they are related.

Oceanic Islands are those that rise from the bosom of the oceans. Their geological structure will have no relation to that of the nearest shores. They are very often the tops of submarine mountains or submarine volcanoes. Ascension and Tristan-da-Cunha, for example, rise from the Central Atlantic ridge (mountain) while St. Helena and Tenerife are islands formed by submarine volcanoes.

Tectonic Islands are created by movements in the Earth's crust. The outermost layer of the Earth made of rigid plates are in very slow, but constant, motion. When one plate is pushed under another plate, the top plate may scrape off pieces of the bottom plate. Over millions of years, this material piles up to form an island. Barbados in the

West Indies and Kodiak Island near Alaska were formed this way.

Coral Islands are the work of minute sea organisms called coral polyps. They congregate in large colonies. When the organisms die, their skeletons, which are made of a substance resembling limestone, form big clusters, some of which rise above the water.

One type of coral excels in building reefs. Reef-building corals thrive in warm tropical seas. They usually start building reefs, along the edges of islands. Such reefs are called fringing reefs. Many tropical islands have such fringes. These protect the islands from the ravages of the sea. Sometimes an island, with a coral fringe begins to sink. Its shoreline goes down first, while coral building continues upwards. The sea invades the sinking shoreline and separates the coral reef from the rest of the island. Such a reef is called a barrier reef. The Great Barrier Reef, which extends for more than 2000 km parallel with the coast of Queensland, Australia, appears to have come into existence in this manner. This is the biggest coral reef known and consists almost entirely of the limestone skeletons of countless coral colonies that had existed through thousands of years.

Atolls Low circular coral islands each with a central lagoon of shallow water, are called atolls. Atolls probably represent the last stage in the evolution of a coral island. When the island around which coral is built sinks, the coral ring remains above water, while the island disappears under the water. In course of time the coral limestone reef is weathered down to soil and seeds carried by birds or wind begin to sprout and produce vegetation. Then the coral reef turns into an inhabitable area—a coral island in fact.

Atolls consist of two parts, a central lagoon (watery area) and a surrounding reefland. Sometimes the watery surface is much bigger than the land surface. This is the case with Kwajalein in Marshall Islands, Central Pacific,

where the water area covers 2850 sq. km, while the land area is a narrow ring, with a total length of 280 kilometres. On the other hand, Christmas Island in Line Islands, Central Pacific, is an atoll with the largest land area known—480 sq. km. Its lagoon is relatively insignificant.

Hydrosphere

It is estimated that the hydrosphere contains about 1,460,000 cubic km of water. Of this 97.3% is in the oceans and inland seas. The rest 2.7% is found as glaciers and ice caps, fresh water lakes, rivers and underground water.

The total stock of ocean water and fresh water has been fairly constant throughout geological history. But the ratio between ocean water and fresh water has always changed according to climatic conditions. When the climate is very cold much of the sea water is absorbed by glaciers and ice caps and fresh water increases at the expense of sea water. When the climate grows hot, glaciers and ice caps melt and sea water gains at the cost of fresh water. Sea level observations during the last 60 to 80 years indicate that the sea level is rising slowly. This means that the climate is getting hotter.

The Oceans

The oceans cover 70.8% of the Earth's total surface area and hold 1445 million cubic km of water. This water despite its abundance is not directly useful to man, because it is not potable.

The ocean water contains about 3.5% of dissolved salts – chlorine, sodium, magnesium, sulphur, calcium, potassium, bromine, strontium and boron. Minute quantities of carbon, silicon, aluminium, fluorine and iodine are found. The oceanic waters are always in motion, owing to a variety of natural forces.

Solar heat sets ocean water moving. The Sun warms up the water in the equatorial

regions causing it to expand and rise by a few inches. This extra rise at the equator causes the water to flow down, to the north and south poles. As the warm water at the equator flows north and south, the heavier cold water (heavier, because of its extreme condensation) in the polar areas sinks below the warm water and spreads slowly along the bottom to the equatorial regions. This interflow is complicated by the force of the rotation of the Earth. Because the Earth spins eastwards, the sea water tends to roll up to the west, turning slightly to the right in the northern hemisphere, and to the left in the southern hemisphere. This is known as the *Coriolis Effect*, after the French mathematician who discovered it nearly a century ago.

The Oceans, unlike the continents, merge so naturally into one another that it is hard to demarcate them. Nevertheless, geographers have divided the oceanic area into 4 oceans, namely the Pacific, the Atlantic, the Indian and the Arctic. These oceans, by definition, include the seas, bays, gulfs and other ocean inlets attached to them.

The Pacific Ocean is the largest and the oldest of the oceans. It occupies 35.25% of the Earth's area. It is 16,880 km at its broadest and 11,516 m at its deepest (Mindanao Deep). It has the greatest conglomeration of islands, which fall into three broad groups. Micronesia, Melanesia and Polynesia. Area: 155.5m km², Av. Depth: 4028 m, Deepest place: Mariana Trench.

The Atlantic Ocean, the second largest ocean, covers 20.9% of the earth's area. Its greatest depth is 8,381 m (Milwaukee Deep). Area: 76.7m km², Av. Depth: 3926 m, Deepest place: Puerto Rico Trench.

The Indian Ocean, the third largest, stretches from Kanyakumari in India to the Antarctic at the South Pole. It takes up 14.65% of the Earth's total surface area. Its greatest depth is 7725 m. Area: 68.5m km², Av. Depth: 3963m, Deepest place: Sunda Trench.

The Arctic Ocean is the northern-most ocean. It winds round the North Pole and is completely frozen in winter and covered with drifting ice for the rest of the year. It is not navigable. Area: 14m km², Av. Depth: 1205m, Deepest place: 77°45'N; 175°W

The Antarctic Ocean* is otherwise called the Southern Ocean. It surrounds the whole of Antarctica. In winter it gets frozen and because of its great expanse it influences regional climate. Area: 20.3m km², Av. Depth: 4500m, Deepest place: South Sandwich Trench.

Salt in Ocean: NaCl 77.8%; MgCl₂ 10.9%; MgSO₄ 4.7%; CaSO₄ 3.6%; K₂SO₄ 2.5%; CaCO₃ 0.3%; MgBr₂ 0.2%

Rivers, Lakes and Falls

The two longest rivers in the world are the Amazon (Amazonas) flowing into the South Atlantic and the Nile (Bahr-el-Nil) flowing into the Mediterranean.

The length of the Amazon as measured in 1969 is 6448 km. A subsequent calculation has placed it at 6750 km. The length of the Nile as measured by M. Devroey of Belgium is 6670 km. If we take the lower figure for Amazon (6447 km) the Nile leads by 223 km. If the greater length is considered (6750 km) the Amazon leads the Nile by 80 km.

However, in judging rivers, the primary criteria are the amount of water they carry and the extent of the area they serve, whether for navigation or cultivation. On these counts the Nile loses to the Amazon by wide margins. Amazon river has the greatest flow of all rivers in the world with an average 119, 000 cubic metres per second (118,860 cubic m of water per second (cusecs)) rising upto 200,000 cubic metres in flood. It has the largest river basin in the world, 7 million square kilometres. It has some 15,000 tributaries, the longest tributary Medeira having a length of 3200 km.

* In 2000, International Hydrographic Organisation, delimited Antarctic Ocean as the 5th world ocean.

River Valleys: The running river water is an agent of erosion forming U-shaped or V-shaped valleys. During the rivers' different stages, erosion forms different land form.

Meanders: It is the longitudinal s-shaped courses of rivers.

Ox-bow lake: Small lakes formed as a river cuts through a meander neck to shorten its course, block off the old channel and then migrates away from the lake.

Deltas: *Arcuate deltas* are arc-shaped, like in Nile delta, Niger delta or Indus delta.

Bird-foot delta as in Mississippi delta.

Estuarine delta are those formed due to filling of estuaries of rivers as in Narmada & Tapi, Ob, Hudson, etc.

Atmosphere

The atmosphere is an insulating blanket protecting the Earth. It softens the intense light and heat of the Sun. Its Ozonic (O_3) layer absorbs most of the very deleterious ultraviolet rays from the Sun and thus protects living organisms from extinction.

The atmosphere is bound to the Earth by gravity. Satellites like the Moon, which have very low gravitational power, cannot and do not hold an atmosphere.

Air pressure simply means the weight of the entire air column over a given point. Air, of course, has very little weight. A litre of air weighs around 1.3 g. At the sea level, the air pressure is 1033.6 g per sq. cm. This pressure is usually described as one *atmosphere*.

Composition of Atmosphere: The atmosphere is composed of various gases and water vapour, and in its uppermost reaches, it is charged with subatomic particles. Up to about 50 km from the Earth, the atmosphere consists of about 78% nitrogen, 21% oxygen (O_2) and minor percentages of argon, carbon dioxide, neon, helium and methane, in that order. Above 50 km, the atmosphere is made up of atomic oxygen (O_1), ozone (O_3), helium and hydrogen.

Water vapour is present in the lower atmosphere, say up to 12 km, in concentrations ranging from 0.01% to 1%. Although the amount of water vapour in the atmosphere is very small, its importance is very great, for without water in the atmosphere, there would be no water on Earth. Water enters the atmosphere by evaporation from the hydrosphere (and by transpiration) and leaves the atmosphere by precipitation as snow or rain. It is a never ending 2-way traffic.

Clouds are made of water vapour that has evaporated from the Earth. They are very tiny droplets of microscopic size and are too light to fall down as rain. So they ride on the air waves until they condense and then fall down as rain.

Lightning: It is the surge of electricity from the Earth that makes lightning the awesome phenomenon that it is. The lead, however, is taken by the clouds which send down a rather weak stroke called the leader stroke. The Earth responds by sending up a much more massive stroke to the clouds. The whole thing takes less than a second, so that we see the leader stroke and the counter stroke as one flash of lightning. Dry air is highly resistant to electricity. When the air is loaded with water vapour it becomes a better conductor. Nevertheless, much power is required for the stroke to rip through the air. This excessive discharge of electricity heats up the air around the passage (of the stroke) to incandescent temperatures, say $10,000^{\circ}C$. It is this glowing air that we see as lightning flash. The heat also causes a sudden expansion of air which, as the heat disappears, contracts quickly again. This sudden expansion and contraction produce the familiar thunder clap. Although both occur at the same time, we see the flash first for light travels much faster than sound.

The character and composition of the atmosphere change as one goes higher and higher.

Spheres of Atmosphere 1. Troposphere with Tropopause, 2. Stratosphere with Stratopause, 3. Mesosphere with Mesopause and 4. Ionosphere and 5. Exosphere.

The one nearest the Earth—between 8 and 12 kms - is called the *Troposphere*. Here the temperature decreases with increase in height. It's the densest and contains water vapour and dust. Clouds are found here. Since 80% of the air mass is concentrated here it is capable of influencing Earth's climate. Tropopause is what separates Troposphere from Stratosphere.

Stratosphere, extends from 12 to 30 km, and the temperature remains steady. It is free from water vapour, clouds and dust. Jets often fly in this zone. Ozone protects Earth from the bad effects of the UV- rays radiating from the Sun. Stratopause divides Stratosphere from Mesosphere.

Mesosphere extends up to 80 km and is very cold. Still higher, starting about 80 km above the surface, is the *Ionosphere*. In this uppermost region many of the molecules and atoms of the Earth's atmosphere are ionized.

Ozone Layer

According to 2006 Reports of two UN agencies, the World Meteorological Organisation (WMO) and the UN Environment Program (UNEP), the earth's ozone layer is finally on the mend after decades of damage, i.e., recovering more slowly than experts had hoped. Over huge areas of Europe, North America and Asia in the northern hemisphere and over southern Australasia, Latin America and Africa, the layer would be back to pre-1980 levels by 2049. Over Antarctica, where so-called "ozone holes" have grown over the past 30 years, recovery was likely to be delayed until 2065. The good news is that the level of ozone-depleting substances continues to decline from its 1992-94 peak in the troposphere and the 1990s peak in the stratosphere. The earth's atmosphere is

enveloped by different layers but in the stratosphere it is covered by ozone gas (Stratosphere extends from 12 km to 30 km above the Earth). Ozone has three oxygen atoms while oxygen has two. Ozone protects mankind from harmful radiation called ultraviolet (UV) rays from the Sun. The UV light from the Sun causes reaction leading to making and breaking of ozone oxygen. The ozone layer absorbs potentially harmful UV radiation from the Sun (at wavelengths between 240 and 320 nm). The main destroyers of the ozone are the CFCs (Chloro-fluorohydro-carbons) (from air conditioners, refrigerators, aerosols, solvents and in production of some types of packaging) and nitrogen oxides from fertilisers and aircraft emissions occurring high in the troposphere (which rise up into the stratosphere) where they are broken by UV light into chlorine (which has a very devastating effect on the ozone). One atom of chlorine can destroy over 100,000 molecules of ozone. Depletion of the ozone layer will allow UV light of the undesirable wavelengths to penetrate the atmosphere and reach Earth's surface. This causes skin cancer, severe sunburns, cataracts, damage vegetation, crop yields and sea life, among other things.

Winds

It is the air in motion. What causes the wind is the pressure gradient, it always from high pressure area to low pressure area. Due to the Earth's rotation the wind's direction changes suddenly due to deflection. In the northern hemisphere the wind is deflected to the right and in the southern hemisphere to the left. This phenomenon is called the Ferrel's Law. The force acting behind it is Coriolis force.

Types of Winds (i) Planetary winds are those that occur at the global scale, such as the trade winds, westerlies (Roaring Forties, Furious Fifties, Shrieking-sixties), doldrums, tropical cyclones, as in India (Typhoon-Phil-

Monsoon in itself is considered a phenomenon. Monsoon is attached to such an atmospheric circulation which reverses its flow seasonally. If this criterion of seasonal reversal is applied strictly, then only a few regions of the world have monsoon wind system. It is in Asia that monsoonal circulation is found in the ideal form. USA, Northern Australia, West Africa also has monsoon-like experiences.

Indian Monsoon The monsoon in the truest sense is observed only around the Indian Ocean. The centres of action, air masses, and the dynamics of Indian monsoon are completely different from the rest of the world monsoon systems. The peninsular shape of the country has its role, as it divides the SW monsoon flanks to the north as the Arabian Sea branch and to the east as Bay of Bengal branch.

Rain: When the SW Monsoon brings about 1 metre of average rainfall over the plains of the country as a whole, it is called normal. But there are many places such as the windward side of the Western Ghats which receive between an average of 100-250 cm of rain. At Mahabaleshwar the rainfall amounts to 650 cm and Mawsynram, on the southern slopes of Khasi-Jayantia Hills, has the unique distinction of receiving average precipitation of 965 cm, in the world. The term 'drought' is generally applied when the country receives 85% or less of the long term average rainfall; the SW monsoon may be deemed to have failed when the rainfall is so scanty.

Peculiarities of Indian monsoon are:
 (a) tropical location of the Indian sub-continent, (b) Himalayas—the mountain barrier to the north of the landmass, cold and dry air-mass from the Central Asian high pressure zone. It not only blocks the SW wind from crossing over to the Tibetan plateau but allows it to spread in the north Indian belt. (c) monsoon is controlled by high and low pressure centres developed over northwest-

ern region of the Indian sub-continent, (d) It is in summer due to intense heating the high temperature (about 40-45°C) steepens pressure gradient over India, (e) extreme low pressure points (thermal low of upto 700 mb) that develop in the NW region, actively attract the prevailing wind from the Indian Ocean, (f) monsoon bursts over India with big turbulence, (g) Inter-tropical Convergence Zone shifts to the northern plains (about 30°N), (h) at its peak monsoon derives its strength from series of atmospheric depressions, that have their origin in the convergence zone of different air masses, (i) monsoon starts by 20th May and covers the whole country by July 15th, (j) retreating monsoon starts (also called NE monsoon) from northern regions by Sept. 1st, central India by Oct. 1st, and completely by first week of November, (k) Retreat of monsoon is also accompanied by disturbances such as cyclones, causing large scale damage to life and property along the eastern coast of India.

Lunar Statistics

- Distance from Earth—0.384403 m km
- Diameter—3,475 km
- Circumference—10,927 km
- Temperature on Moon—134°C to –170°C • Revolution around Earth 27 days 7hrs 43min—11.47 sec
- Av. speed around Earth—3700 kmph
- Age—About 4.6 b years
- Gravitational pull—1/6th that of Earth

* The mean distance from the Earth: Apogee (max)—406,699 km, Perigee (min)—356,399 km
 The Moon revolves round the Earth in 27th days (27 days 7 hours 43 minutes and 11.47 seconds) and rotates on its own axis in exactly the same time. That's why only one side is seen.

Earth Movements

The occurrence of earthquakes in India is due to the drifting of the so-called Indian Plate. Scientists divide the globe into a number of major tectonic plates that drift very slowly. Whenever and wherever these plates slide against each other a tremendous amount of energy is released and causes the terrific destructions. The recent earthquakes in Mahara-shtra and Gujarat give us a good estimate of how damaging they could be.

Earthquake

There was a time – some 225 million years ago – when the continents were not separated by oceans. The earth's surface knew only one massive continent, called Panagea. The some 200 million years ago, Panagea split into two major continents, one of them Gondwana-land (which contains Africa, South America, India and Australia). Gondwanaland continued to split into smaller land masses, one of them is the Indian plate. It drifted at a speed of 9 metres per century towards the Eurasian plate. Where these giant plates met under enormous pressure, the Himalayans were formed.

Types: Natural Earthquakes caused by endogenic forces. (i) Volcanic-caused due to volcanic eruptions, e.g., Mt Etna. (ii) Tectonic-caused due to stress and strain along Earth's plates or dislodging of rocks during faulting. (iii) Isostatic-caused by isostatic imbalance due to sudden geological activity at a regional scale. (iv) Plutonic-earthquakes originating deep inside the earth between 250 to 650 km deep.

How Earthquakes Occur? There are many fault-lines in the Earth's crust. A fault is where

blocks of crust on either side are moving relative to one another. The typical average rate is around a millimetre per year. If this movement happened gradually it would pose few problems for people living near by. Unfortunately rocks do not behave that way. Strain builds up for decades or centuries until it reaches a critical level, and then everything gives in at once.

Once a fault has given way at one point, slip movement may occur along its whole length, which may be hundreds or thousands of kilometres, though movement is usually restricted to a much shorter portion of the whole fault. The strongest seismic waves are generated at the initial break-point. The closer to the break-point, the greater the energy and the greater the potential for destruction, especially if the break-point is near the surface. Technically, the break-point is called the earthquake focus, and the point on the surface directly above it is referred to as the epicentre. Slip further along the fault and readjustments close to the focus usually cause a series of smaller aftershocks, which continue for days (even years in extreme cases) after the initial earthquake. Such kind of energy release are called waves because of the way they move. Most of the damage caused by an earthquake is not done by the P-waves and S-waves. These waves travel through the body of the Earth, and their energy is dissipated over a rapidly increasing area. It is the surface waves that travel along the surface and cause most of the harm. Surface waves (like strong side-to-side

Major Earthquakes Worldwide

Year	Date	Place	People killed**	Richter Scale
1990	Jun 21	Iran	35,000	7.7
1990	July 16	Philippines	1,620	7.8
1991	Feb 1	Pak/Afghan	1,200	6.8
1991	Oct 20	India	1,600	6.1
1992	Dec 12	Indonesia	2,200	6.8
1993	Sep 30	India	10,000	6.4
1994	Jun 6	Colombia	1,000	—
1995	Jan 17	Japan	6,430	7.2
1995	May 28	Russia	1,989	7.5
1997	Feb 28	Iran	1,000	5.5
1997	May 10	Iran	1,560	7.1
1998	Feb 4	Afghanistan	4,500	6.1
1998	May 30	Afghanistan	4,000	6.9
1998	July 17	Papua-Guinea	2,100	7.1
1999	Jan. 25	Colombia	1,170	6.3
1999	Aug 17	Turkey	15,600	7.4
1999	Sep. 21	Taiwan	2,000	7.6
2001	Jan. 26	India	20,000+	6.9 - 7.9
2002	Mar. 3	Afghanistan	166	7.4
2002	Mar. 25	Afghanistan	1,000	6.1
2005	Oct. 8	Pak-India	40,000	7.4
2006	Jan 8	S. Greece		7.9
	May 27	Indonesia	6234	6.3
	July	Indonesia	659	7.7

**Approximate figures

S-body waves travel faster than the surface waves, and, if felt, can give a few seconds (minutes, if further away) warning of the arrival of the more damaging surface waves.

When Next? Scientists can't predict earthquakes but they know in which regions earthquakes are most likely to occur. Taking into account the speed and direction of the drift of the plates, the structure of the land masses and in particular the measurements of the tensions between different areas almost accurate probabilities can be calculated. Gujarat and the whole of Northern India are areas, with a high probability of experiencing severe earthquakes. Based on tension measurements and past movements of the Indian plate scientists know that a very major earthquake is going to hit the Shillong plateau in the north-

eastern part of the country before 2010. There is a very high probability – but it is absolutely impossible to predict an exact date or the epicentre of this quake.

Seismic Scale

The Richter scale is a logarithmic scale devised in 1935 by geophysicist Charles Richter, for representing the energy released by earthquakes. More relevant as a measure of earthquake strength is the intensity, for which the modified Mercalli scale is used.

Comparative scale: Richter & Mercalli

Richter	Mercalli	Effects
2.5	I & II	Generally not felt, but recorded
	III	Slight vibration
4.5	IV	Local damage.
5.0	V	Light damage. Can be felt indoors.
6.0	VII	Moderately destructive in populous region.
7.0	IX	Major earthquake. Inflicts serious damage. Roughly ten occur each year.
8.0	X	Great earthquakes. Occur once every 5-10 years; produce total destruction to nearby communities.
9	XI	Very disastrous, widespread
10	XII	Very very disastrous, panic

Volcanoes

A volcano is a mountain or hill with an opening on top known as a crater. Hot melted rock (magma), gases, ash, and other material from inside the Earth mix together a few kilometres underground, rising up through cracks and weak spots in the mountain. Every once in a while, the mixture may blast out, o

erupt, through the crater. The magma is called lava when it reaches the air. Lava may be as hot as 1000 degree Centigrade. Gradually the lava cools and solidifies on the earth surface making new landforms. In some eruptions, huge fiery clouds rise over the mountain, and glowing rivers of lava flow down its sides. In other eruptions, red-hot ash and cinders shoot out from the mountain top, and large chunks of hot rock are blasted high into the air. A few eruptions are so violent they blow the mountain apart. Some eruptions occur on volcanic islands. Such islands are the tops of volcanic mountains that have been built up from the ocean floor by repeated eruptions. Other eruptions occur along narrow cracks in the ocean floor. In such eruptions, lava flows away from the cracks, building up the sea bottom.

Types: PERIODICITY: (i) Active- that which is active now. e.g. Etna, Stromboli, Pinatubo, etc. (ii) Dormant- that which has not erupted for quite some time now. e.g. Vesuvius, Barren Is. (iii) Extinct- which has not erupted for several centuries/millennia or may not occur in near future too. **MODE of ERUPTION:** (i) Central / Explosive- e.g. Hawaiian type, Vesuvius type, Pelean type, etc. (ii) Fissure / Quite eruption: in which lava flow or flood, mud flow and fumaroles.

Volcanic eruptions

Year	Volcano (place)	Deaths (approx)
79 AD	Mt. Vesuvius, Italy	16000
1586	Kelut, Indonesia	10,000
1792	Mt. Unzen, Japan	14,500
1815	Tambora, Indonesia	10,000
1883	Krakatoa, Indonesia	36,000
1902	Mt. Pelee, Martinique	28,000
1980	Mt. St. Helens, USA	57
1982	El Chichon, Mexico	1880
1985	Nevado del Ruiz, Columbia	23000
1986	Lake Nyos, Cameroon	1700
1991	Mt. Mt Pinatubo, Philippines	800

Ring of Fire: The hundreds of active volcanoes found on the land near the edges of the Pacific Ocean make up what is called the Ring of Fire. They mark the boundary between the plates under the Pacific Ocean and the plates under the continents around the ocean. The Ring of Fire runs all along the west coast of South and North America, from the southern tip of Chile to Alaska. The ring also runs down the east coast of Asia, starting in the far north in Kamchatka. It extends down past Australia.

Looking at the Continents

Name	Area sq kilometres	% of Earth's area	Population Estimate (million)
Asia	43 998 000	29.5	3879
Africa	29 800 000	20.0	877
N. America	21 510 000	16.3	501
S. America**	17 598 000	11.8	379
Europe	9 699 550	6.5	727
Australia *	7 699 000	5.2	32
Antarctica	13 600 000	9.6	uninhabited

* Australia with New Zealand, Tasmania, New Guinea and the Pacific Islands, (Micronesian, Melanesian and Polynesian Islands) is called Australasia by some geographers while some others call it Oceania. ** includes Caribbean countries

Oceans of the World

Pacific	166,241,000 sq km
Atlantic	86,557,000 sq km
Indian	73,427,000 sq km
Arctic	9,485,000 sq km

Continentwise Highest Point

Continent	Peak	Height(m)
Asia	Mt. Everest	8 848
Africa	Kilimanjaro	5963
N. Am.	McKinley	6 194
S. Am.	Aconcagua	6 959
Europe	Mt. Elbrus	5 633
Oceania	Puncak Jaya	4884
Antactica	Vinson Massif	4297

Continentwise Lowest Point

Continent	Peak	Depth(m)
Asia	Dead Sea	-396 m
Africa	Lake Assai	-167
N. Am.	Death valley	-33 m
S. Am.	Valdes Pénin	-33 m
Europe	Caspien Sea	-28 m
Oceania	Lake Eyre	-15 m

Oceans' Greatest Depths

Mariana Trench, Pacific Ocean	10920m
Puerto Rico Trench, Atlantic Ocean	8605m
Java Trench, Indian Ocean	7125m
Arctic Basin, Arctic Ocean	5122m

Major Seas

South China	2,974,600 sq km
Caribbean	2,515,900 sq km
Mediterranean	2,510,000 sq km
Bering	2,261,100 sq km
Gulf of Mexico	1,507,600 sq km
Sea of Okhotsk	1,392,100 sq km
Sea of Japan, or East Sea	1,012,900 sq km
Hudson Bay	730,100 sq km
East China	664,600 sq km
Andaman	564,900 sq km
Black	507,900 sq km
Red	453,000 sq km

Major Lakes

Caspian Sea, Asia-Europe	371,000 sq km
Superior, North America	82,100 sq km
Victoria, Africa	69,500 sq km
Huron, North America	59,600 sq km
Michigan, North America	57,800 sq km
Tanganyika, Africa	32,900 sq km
Baikal, Asia	31,500 sq km
Great Bear, North America	31,300 sq km
Aral Sea, Asia	30,700 sq km
Malawi, Africa	28,900 sq km
Great Slave, Canada	28,568 sq km
Erie, North America	25,667 sq km
Winnipeg, Canada	24,387 sq km
Ontario, North America	19,529 sq km
Balkhash, Kazakhstan	18,300 sq km

Deepest Lakes

Baikal, Russian Fed.	1620m
Tanganyika, Africa	1463m
Caspian Sea, Asia-Europe	1025m
Malawi or Nyasa, Africa	706m
Issyk-Kul, Kyrgyzstan	702m

Wettest Inhabited Places

Buenaventura, Colombia	678
Monrovia, Liberia	513
Pago Pago, American Samoa	503
Moulein, Burma (Myanmar)	487
Lae, Papua New Guinea	465
Baguio, Philippines	457
Sylhet, Bangladesh	452

Largest Deserts of the World

Subtropical

Sahara, North Africa	9,064,650 sq. km
Arabian, Middle East	2,589,900 sq. km
Great Victoria, Australia	647,475 sq. km
Kalahari, Southern Africa	582,727 sq. km
Chihuahuan, Mexico	453,232 sq. km
Thar, India/Pakistan	453,232 sq. km
Great Sandy, Australia	388,485 sq. km
Gibson, Australia	310,788 sq. km
Sonoran, S.W. USA	310,788 sq. km
Simpson/Stony, N. Africa	145,034 sq. km
Mohave, S.W. USA	139,854 sq. km

Cool Coastal

Atacama, Chile SA	139,854 sq. km
Namib, S.W. Africa	33,668 sq. km

Cold Winter

Gobi, China	1,294,950 sq. km
Patagonian, Argentina	673,374 sq. km
Great Basin, S.W. USA	492,081 sq. km
Kara-Kum, West Asia	349,636 sq. km
Colorado, Western USA, also called the Painted Desert	336,687 sq. km
Kyzyl-Kum, West Asia	297,838 sq. km
Taklamakan, China	271,939 sq. km
Iranian, Iran	258,990 sq. km

Famous Waterfalls

Name	Country	Drop (m)
Angel	Venezuela	807
Mongefossen	Norway	774
Kukenaam	Venezuela	610
Utigard	Norway	600
Ribbon	USA	491
King George VI	Guyana	487
Roraima	Guyana	457
Upper Yosemite	USA	435
Kalambo	Tanzania-Zambia	426
Gavarnie	France	421
Tugela	S. Africa	410
Takakkaw	Canada	365

Deepest Caves

Name	Location	Max.depth
Resseau du Foillis	France	1455
Resseau de la Pierre St.France	France	1321
Snezhnaya, Caucasus	Russia	1280
Sistema Huatla	Mexico	1220

Longest Rivers

Name	Country/ Continent	Length in kilometres
Nile	Africa	6650
Amazon	S. America	6437
Mississippi-Missouri	USA	6020
Yangtze Kiang	China	5494
Volga	Russia	5410
Ob-Irtysh	Africa	4700
Enisei	Russia	4400
Yanag Ho	China	4344
MacKenzie	Canada	4241
Mekong	Asia	4180
Niger	Africa	4180
St. Lawrence	Canada-USA	4023
Parana	S. America	4000
Amur	Russia	3804
Murray-Darling	Australia	3780
Volga	Russia	3690
Orange	Africa	3540
Padana	S. America	3218
Urals	S. America	3200
Yukon-Teslin	Alaska-Canada	3185
Grande	USA-Mexico	3040
Indus	Asia	2900
Brahmaputra	Asia	2900
INDIA)		
Ganga	India	2510
Godavari	India	1450
Karnataka	India	1290
Krishna	India	1290

Deep-sea Trenches

Name	Length	Depth	Deepest pt.
Mariana (W. Pacific)	2250	10 924	Challenger Deep
Tonga Kermadec (S. Pacific)	2575	10 850	Vityaz 11 (Tonga)
Kuril-Kamchatka (W. Pacific)	2250	10 542	
Philippine (W. Pacific)	1350	10 539	Galathea Deep
Java-Indian (Ocean)	2250	7725	Planet Deep

Units: Length in km and depth in metres

Principal Peaks

Name	Country	Height (m)
Mt. Everest*	Nepal-Tibet	8 848
Everest South Summit	—	8750
K2 (Mt. Godwin)	India (POK)	8 611
Kanchenjunga	Nepal-India	8 598
Dhaulagiri	Nepal	8167
Nanga Parbat (Diamir)	India	8126
Annapurna	Nepal	8 091

Nanda Devi	India	7 817
Mt. Kamet	India	7 756
Saltoro Kangri	India	7742
Gurla Mandhata	Tibet	7 728
Trich Mir	Pakistan	7 700
Minya Konka	China	7 690
Saser Kangiri	India	7 672
Muztagh Ata	China	7 546
Mt. Communism	Tajikistan	7 495
Badrinath Peak	India	7138
Chomo Lhari	India-Tibet	7 100
Aconcagua	Argentina	6 960
Ojos del Salado	Argentina-Chile	6 885
Mercedario Huascaran	Peru	6 768
Llullaillaco	Chile	6 723
Volcano Tupungato	Chile-Argentina	6 550
Sajama Volcano	Bolivia	6 520
Illimani	Bolivia	6 462
Vilcanota	Peru	6 300
Chimborazo	Ecuador	6 267
Mt. McKinley	Alaska	6 194
Cotopaxi	Ecuador	5897
Kilimanjaro	Tanzania	5895
Mt. Elbrus	Georgia	5642
Mt. Blanc	France-Italy	4807
Matterhorn	Switzerland	4478
Mt. Cook	New Zealand	3764

*[Qomolangma-feng:Chinese, Sagarmatha:Nepalese, Mi-ti gu-ti cha-pu long-na: Tibetan]. The dormant volcano Mauna Kea (on Big Island of Hawaii) could be considered the tallest mountain in the world if one measures it from its base in the Hawaiian Trough (3280 fathoms deep) to its summit, it reaches a height of 10,203m. (4205m above the msl.)

Hottest, Coldest, Driest, Wettest

Hottest Place Dallol, Denakil Depression, Ethiopia, annual average temp. 34.4°C

• **Coldest Place** Plateau Station, Antarctica, annual average temp. -56.7°C

• **Wettest Place** Mawsynram, Meghalaya 1187 cm 74-yr. av.; (Mt. Waialeale, Hawaii Is., 1168 cm, 32-yr.av.) annual average rainfall

• **Driest Place** Africa, Atacama Desert, Chile, (no rain for 14 consecutive years) 0.08cm.

World's Largest Four Islands

Name	Area sq km	Location
Australia*	7 682 300	Indian Ocean
Greenland	2 175 600	Arctic Ocean
New Guinea	792 500	Pacific
Borneo	725 545	Indian Ocean

Kyoto Protocol

The amendment to the treaty on United Nations Framework Convention on Climate Change, called Kyoto Protocol, aims at cutting global emissions of Green House Gases (GHG). The Intergovernmental Panel on Climate Change (IPCC) has predicted an average global rise in temperature of 1.4°C to 5.8 °C between 1990 and 2100. Current estimates indicate that even if successfully and completely implemented, the Kyoto Protocol will reduce that increase by somewhere between 0.02 °C and 0.28 °C by the year 2050 (source: Nature, October 2003).

Objectives: Kyoto is intended to assign mandatory targets for the reduction of

global emissions of greenhouse gas to signatory nations. The objective is the "stabilisation of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system" UNFCCC-2.

Status: The treaty was negotiated in Kyoto, Japan in December 1997, opened for signature on March 16, 1998, and closed on March 15, 1999. The agreement came into force on February 16, 2005 following ratification by Russia on November 18, 2004. As of July 2006, a total of 164 countries have ratified the agreement (representing over 61.6% of emissions from Annex I countries).

Global Warming

Global warming refers to an increase in average global temperatures, which in turn causes climate change. Climate change refers to changes in seasonal temperature, precipitation, wind, and humidity for a given area. Climate change can involve cooling or warming.

Temperature readings taken around the world in recent decades, and scientific studies of tree rings, corals, and ice cores, show that average global temperatures have risen since the industrial revolution began, with increases accelerating over the past few decades. The overwhelming consensus among climate scientists is that most of the increase is due to human economic activity, especially the burning of fossil fuels and deforestation. These activities contribute to a build-up in carbon

dioxide (CO₂) and other gases in Earth's atmosphere.

Our atmosphere is made up of gases, such as nitrogen, oxygen, and CO₂, and water vapor, which act like a "blanket" draped around the planet. Some of these gases—such as CO₂, water vapour, and methane—absorb heat, reducing the amount that escapes to space, and increasing global temperatures. This is what is called the "greenhouse effect," and these gases are often referred to as "greenhouse gases."

Without this process, the temperature of Earth's atmosphere would average about 30 degrees Celsius colder than it is today, making it difficult for Earth to sustain life as we know it. However, if this blanket were to become too "thick," with too many gases trapping too much heat, Earth would be uninhabitable.

Notable exceptions include the United States and Australia. Other countries, like India and China, which have ratified the protocol, are not required to reduce carbon emissions under the present agreement.

According to terms of the protocol, conditions for entry into force required 55 parties and at least 55% reduction of the total CO₂ emissions at 1990 levels for the Parties included in Annex I."

At its heart, Kyoto establishes the following principles: * Kyoto is underwritten by governments and is governed by global legislation enacted under the UN's aegis

* Governments are separated into two general categories: developed countries, referred to as Annex 1 countries (who have accepted strict GHG emission reduction obligations); and developing countries, referred to as Non-Annex 1 countries (who have no GHG emission reduction obligations) * Any Annex 1 entity failing to meet its Kyoto targets

is subject to a fine and further penalised by having its reduction targets increased by 30% * By 2008, Annex 1 countries have to reduce their GHG emissions to around 5% below their 1990 levels. * Kyoto includes "linking mechanisms" which allow Annex 1 economies to meet their GHG targets by purchasing GHG emission reductions from elsewhere. The Kyoto linking mechanisms are in place for two main reasons: * the cost of complying with Kyoto is prohibitive for many Annex 1 countries (especially those countries, such as Japan or the Netherlands for example, with highly efficient, low GHG polluting industries, and high prevailing environmental standards). Kyoto therefore allows these countries to purchase Carbon Credits instead of reducing GHG emissions domestically; and, * this is seen as a means of encouraging Non-Annex 1 developing economies to reduce GHG emissions since doing so is now economically viable because of the sale of Carbon Credits.

Light Pollution

Lights, without question, help us feel secure but bad lighting hurts everyone. According to a popular 2001 study by University of Padua, Italy, two-thirds of the world's population is blind to the night sky. The loss of the dark star-filled sky is of tragic consequences for the environment and for the human soul, akin to the loss of our forested landscapes and other natural treasures. Bad light is affecting astronomical observations in different locations just as much as such conditions are affecting birds causing accidents (even killing itself) as it prey-on under street lights.

Since 1988, the International Dark Sky Association (IDA) — has dedicated itself to emphasise the gratuitous amount of energy and money wasted due to reckless

lighting practices. A simple glance at a supermall, city hoardings, billboards or corporate offices at night will demonstrate the light-spewing, the IDA is trying to clean up. Obviously, the preservation of life should remain at the forefront of civilisation's collective attention, but like any natural resource, the majesty of the night sky need not be compromised. The IDA does not seek to eliminate such useful and necessary forms of lighting. Instead, it is striving to modify the current excessive lighting practices. Following through such efforts can conserve energy, reduce harmful glare on the road, and of course, allow for a purer view of the night sky. The IDA, though, is trying to convince local and state governments to light intelligently and, coincidentally, economically. In US, states like Arizona, Texas, etc., have already enacted anti-light pollution laws.

Pollution

The word 'pollution', originally a Latin word 'pollutionem,' means to make dirty. Environmental pollution is a serious problem of the industrialised societies because people have converted the life— supporting systems of the entire living world into their own resources and have vastly disturbed the natural ecological balance. Serious degradation and depletion have been caused through over use, misuse and mismanagement of resources to meet the human greed.

Environmental pollution is defined as the unfavourable alteration of our surroundings, wholly as a by-product of man's activities through direct or indirect efforts of changes in the physical, chemical and biological characteristics of land, air or water that harmfully affect human life or any desirable living thing. Human population explosion, rapid industrialisation, deforestation, unplanned urbanisation, scientific and technological advancement, etc. are the major causes of environment pollution.

Air Pollution: Due to air pollution, the composition of the air is changing all over the world, esp. in industrialised countries. Air pollution results from gaseous emission from industry, thermal power stations, domestic combustion, etc. Most of the gaseous and particulate air pollutants are products of burning of fuels. Burning of coal mainly produces carbon dioxide, sulphur dioxide and fly-ash. Lead, carbon monoxide and nitrogen oxides are added to the atmosphere from automobile exhaust. Nitrogen oxides & sulphur dioxide together are responsible for acid rain. Carbon monoxide is highly toxic and impairs oxygen-carrying capacity of blood. Several cases of death are reported every year from carbon monoxide

poisoning from gas heaters, heating devices and coal mines. Lead which is emitted by automobile is known to hamper haemoglobin formation. Compounds containing chlorine and fluorine, especially the chlorofluorocarbons, are widely used as propellants and as refrigerants. They cause ozone depletion in stratosphere. Air-borne solid and liquid particulates are emitted by various industrial processes such as blasting, drilling, crushing, grinding and drying which may cause lung diseases, if inhaled.

Haemoglobin is known to absorb NO_2 more easily than oxygen. About 80 to 90% NO_2 inhaled is easily absorbed into the bloodstream. This reduces the oxygen-carrying capacity of blood. NO_2 causes lung tissue to become and cause lung cancer and emphysema (breathing problem due to the breakdown of the air sacs in the lungs, which then progressively diminishes the ability of the lungs to exchange oxygen and carbon dioxide in the blood stream). Thus, NO_2 causes bronchitis and bronchopneumonia. In presence of sunlight, NO_2 reacts with hydrocarbons to produce ozone, a highly toxic gas, known to cause asthma.

Water Pollution: Water pollution adversely changes the quality of water. It disturbs the balance of ecosystem and causes health hazards to humans and animals. Water becomes polluted by the presence or addition of inorganic, organic or biological substances.

Effluents from factories, paper mills, sugar mills, tanneries, urban and rural sewage are let into rivers. Water pollution also occurs due to the use of pesticides and fertilizers in agriculture. Enrichment of water by nutrient (esp. nitrate and phosphates) results in eutrophication of lakes and water bodies. This results in

ssive growth of algae and depletion of
olved oxygen in the lake. Oil spills from oil
ers also causes marine pollution. Various
nful chemicals like DDT can enter into the
chain through polluted water.

Noise Pollution: Noise can be defined
nwanted sound. Whether a sound is pleas-
or a noise depends upon loudness, dura-
, rhythm and the mood of the person. The
st immediate and acute effect of noise
ution is impairment of hearing, anxiety
stress and in extreme cases fright. Physi-
gical manifestations: increase in the rate of
rt beat, constriction of blood vessels, di-
tative spasms and dilation of pupil of the eye.
udness is measured in terms of decibels
). Just audible sound is about 10dB, a
isper is 20dB, and a normal conversation is
-60dB. Sound beyond 80dB can be safely
garded as pollution as it harms hearing
stem. The WHO has fixed 45dB as the safe
ise level for a city.

PM 10 and PM 2.5 : PM stands for particu-
e matter and the numbers 10 and 2.5 are
meter of particles in micrometer (Mm). The
articles less than 10 Mm diameter which are
led respirable suspended particulate matter
(SPM) can enter into human nasal tract, and
articles smaller than 2.5 Mm can reach further
ide up to terminal bronchi and alveoli in the
gs - may cause serious lung diseases, tu-
our, cancer, etc.

Radioactive Pollution: Radioactive pol-
ion is related to all major life supporting
tems-air, water and soil. Radioactivity is a
enomenon of spontaneous emission of al-
a, beta and gamma rays as a result of
integration of atomic nuclei of some ele-
ents. Man-made sources of radiation pollu-
n are mining and refining of radioactive
aterial, production and explosion of nuclear
apons, nuclear power plants and fuels, and
eparation of radioactive isotopes. All organ-
ns are affected by radiation pollution. In
gh doses, radiation can cause death. Long or

repeated exposure can cause cancer and
leukaemia and induce mutation.

Soil pollution and land degradation:
The soil pollutants include pesticides, fertiliz-
ers, industrial wastes, mining wastes, salts,
radioactive materials, tin, iron, lead, mercury,
aluminium & plastics. Pesticides adversely
affect the micro-organisms present in soil. In
addition to this, pesticides enter in human
food chain either through plants or through
water which accumulates as surface runoff or
leaches down in the ground water with pes-
ticide dissolved in it. Poisonous waste render
soil unfit for crop production. The dangerous
metals like fluoride and arsenic when present
in soil, not only contaminate the crops, but
also ground-water.

Deforestation: Deforestation is a threat to
the economy, quality of life and future of the
environment. Main causes of deforestation in
India are : explosion of human and livestock
population, increased requirement of timber
and fuel wood, expansion of agriculture land,
enhanced grazing and construction of infra-
structure along the mountains. Ideally 33% of
land of a country must be covered by forest.
Damage caused: intensified soil erosion, accen-
tuated floods and drought and loss of precious
wild life. India is losing about 1.5 million hect-
ares of forest cover each year. Nearly 1% of the
land surface of India is turning barren every year
due to deforestation. In the Himalayan range,
the rainfall has declined 3 to 4% due to defor-
estation.

Afforestation: It restores ecological bal-
ance of all ecosystems, maintain biological
diversity, act as catchments for soil and water
conservation, prevent floods and safeguard
future of tribal people. So, we need to develop
massive afforestation programme of indigenous
and exotic fast growing species for production
and protection of forestry on suitable land
including wasteland. A massive social forestry
programme is needed to meet demands of
local people for fuel, fodder, timber, etc.

Environment

The biosphere is a sphere of living organisms or biological processes lying at the interface between the atmosphere, lithosphere and hydrosphere. The distinguishing feature of the biosphere is that it supports life. It is estimated that the biosphere contains more than 350,000 species of plants including algae, fungi, mosses and higher forms of plants, and 11 million animal species ranging from unicellular protozoa to man. The biosphere supplies the essential requisites of life for all these species, namely light, heat, water, food and living space or habitats.

The biosphere, or the eco-system, represents a stable equilibrium of various physical and biological factors which have been operating in the past. The organic continuity of the system rests on a network of interdependent relationships. The air, the water, man and the animals, plants and planktons, the soil and bacteria are all invisibly interlinked in a life-sustaining system we call the environment. All living organisms—microbes, plants, animals, man—have survived by adjusting themselves to the environment and attuning their lives to its rhythm.

50% forests lost, 40 species extinct
According to the final technical report of the National Biodiversity Strategy and Action Plan (NBSAP), India has lost over 50% of its forest cover, 40% of its mangroves, and a significant part of its wetlands in the past couple of centuries. The report "Securing India's Future: The Final Technical Report of the National Biodiversity Strategy and Action Plan" was released in 2005. At least 40 species of plants and animals has become extinct, including the cheetah and the pink-headed

duck, while several hundred more are under the threat of extinction. Much of the diversity crops and livestock had been lost or were under threat. All 18 of India's poultry breeds are also under threat.

The reason cited are habitat destruction, hunting and over-exploitation as the immediate causes of biodiversity loss, besides an unsustainable and insensitive model of development, breakdown of traditional management practices and institutions, centralisation of decision-making powers in the government, serious social and economic inequities, changes in moral and cultural values and lack of recognition of the full value of biodiversity in economic planning.

Sharing the Earth

We share the planet with trees, flowers, insects, fish, whales, dogs, and many other plants and animals. Each species of animals or plants has its place on Earth, and each one is dependant on others. Plants give off oxygen that animal need to breathe. Animals pollinate plants and spread their seeds. Animals eat plants and are in turn eaten by larger animals. When plants and animals die, they become part of the soil in which new plants take root and grow.

People and the Environment

Now the human population is 6.4 billion and is still rising very fast. By 2050, according to UN estimates, there will be 8.9 billion people on the planet. Remember in 1850, there were just a billion people here.

This many people and their activities on the planet are seriously affecting the plants

and animals of the world. Sometimes the damage can be controlled or even reversed but most of the time the damage is permanent. Today 1932 species of animals are endangered or threatened, according to WWF.

Habitats and some animals: Deserts: (hot/cold dry regions) – camels, kangaroos, mice, scorpions, rattle snakes • Tropical Forests: (warm, humid climate) – orangutans, gibbons, leopards, anteaters, parrots, deer • Grasslands: flat, open lands) – African elephants, kangaroos, Indian rhinoceros, giraffes, zebras, ostriches, tigers, deer • Mountains: highlands – yaks, snow leopards, eagles, mountain goats • Polar Regions: (cold regions) – polar bears, musk oxens, penguins • Oceans: sea – whales, dolphins, seals, octopuses, lobsters.

Some Endangered Animals

Giant Panda: Habitat- China. As few as 1000 Pandas remain in the mountains of southwest China • Leather-back Sea Turtle: Habitat. It is the largest living turtle living in the world. Habitat destruction, fishing nets, harvesting of its eggs are the biggest threats to their survival • California Condor: Habitat - N. America. There are just 60 of them alive in the wild. Of which half live in the State of Arizona, USA • Whooping Crane: Habitat – North America. In 2003, 15 whooping cranes migrated back north on their own for summer.

Biodiversity

Our planet is shared by 6.4 billion people and millions of species. The wide variety of life on Earth, as shown by the many species, is called biodiversity. Here is a sample of Earth's biodiversity. (The figures are estimates as new species are discovered all the time) Species: Mammal - 9000 (rodents 1700, bats 1000); Birds - 9000; Reptiles - 8000 (snakes 2900, lizards 4500); Amphibians - 5000 (frogs/toads 4500); Fish - 24,500 (sharks 350, bony fish 23000, rays & skates 450); Arthropods - 1.1 million (crustaceans 44000, insects 750000,

Global Deserts Outlook

World Environment Day celebrations for 2006 was held in Algiers with the theme "Don't Desert Drylands!". 2006 was also the UN International Year of Deserts and Desertification. The Global Deserts Outlook is the first thematic report in the Global Environment Outlook (GEO) series of environmental assessments by UNEP.

The world's deserts are facing great changes as a result of global climate change, high water demands, tourism and salt contamination of irrigated soils.

Desert margins and so called 'sky islands'-mountain areas within deserts that have been important for people, wildlife and water supplies for millennia-are under particular threat.

Some Key Facts

Almost one-quarter of the earth's land surface – some 33.7 million square kilometres – has been defined as "desert" in some sense. These deserts are inhabited by over 500 million people, significantly more than previously thought. Most of the 12 desert regions, whose future climate has been modeled, are facing a drier future with rainfall in some cases forecast to be 10 to 20% lower by the end of the century. The Dashti Kbir desert in Iran has seen a 16% fall per decade in rainfall during this same period; the Kalahari in South Africa a 12% decline and the Atacama desert in Chile, an 8% drop. The desert fringes in many places, however, suffer high pressures from human activities and include several of the most threatened terrestrial ecoregions of the world.

spiders 35000); Plants - 260000 (flowering plants 250000, evergreens 550).

Today, replacement of the communities of nature by man-made communities has become the new reality.

To safeguard life on Earth, people must learn to control and adjust the balances in nature that are altered by their activities.

Earth Day

April 22 is a day dedicated not just to recognise the beauty and riches of the Earth but also to make the Earth a healthier and safer place to live. Speeches, workshops, parades and demonstrations on the occasion of Earth Day have brought awareness about the dangers of overpopulation, energy waste, and other issues of vital concern. Earth Day was first observed on April 22, 1970 with the message "Give Earth a Chance" and intention to reclaiming the purity of the air, water and living environment.

World Environment Day

The UN General Assembly designated June 5 as World Environment Day, to deepen public awareness the need to preserve and enhance the environment. It was on that day the *UN Conference on the Human Environment* (Stockholm, 1972) started. The Assembly reconvened *United Nations Conference on Environment and Development* (UNCED) after 20 years, in Rio de Janeiro, where nations took up the challenges of a viable and equitable balance between environment and development and a sustainable future for the earth and its people.

International Agreements to Conserve Birds: *Ramsar Convention on Wetlands* (1971) Nearly 1,200 wetland sites in 133 countries, totaling 103 million hectares, have been designated for protection and monitoring under this international agreement to conserve wetland and use them sustainably • Program on

Environmental Conferences

The Stockholm Conference 1972: United Nations Environmental Agency organised the International Conference on Human Environment, at Stockholm from 5 to 14 June 1972 - represented by 114 nations. The conference adopted the motto "Only One Earth" for the entire humanity. The Conference declared June 5 as the World Environment Day. **Nairobi Conference:** In 1982, UN Conference on Environment adopted a report "The World Environment 1972-82". It was a stock taking exercise.

Helsinki Conference 1989 decided to protect Ozone layer, phase out CFCs

London Conf. ('90) phase out CFCs

Copenhagen Conf. ('92) phase out CFC - '96, CTC-'96, Halon-2000, HCFC-2030

The Rio Summit 1992: The UN convened "Earth Summit" at Rio de Janeiro to foster "our common future" from 03 to 14th June; discussed 6 conspicuous issues: 1. GHG Emission 2. Forests, 3. Technology Transfer, etc. The Earth Summit Agenda 21—a blue print for sustainable development.

Kyoto Summit, 1997, Japan, The conference was meant to set a framework for international action to mitigate global warming for at least next 10 years. **World Summit on Sustainable Development, 2002,** Johannesburg, Aug. 26 to Sept. 4. Over 4000 delegates from about 100 countries met to discuss issues including environment.

Stockholm Convention 2004: May 17, decided to phase out 12 dangerous pesticides and industrial pollutants.

Montreal Summit 2005: to speed up Kyoto Protocol initiative

Convention (1972) Under UNESCO, these initiatives set a framework for designating, protecting and monitoring some of the world's most important biodiversity and cultural hotspots. • **Convention on International Trade in Endangered Species of Wild Fauna and Flora (1975)** An international agreement by 160 countries to monitor international trade in wild animals and plants and ensure that trade does not put wildlife in jeopardy. • **Convention on the Conservation of Migratory Species of Wild Animals (1983)** Eighty countries have signed this agreement, also known as the Bonn Convention, to protect migratory wildlife species, including birds, throughout their international migratory, breeding, and wintering areas. • **Convention on Biodiversity (1992)** A total of 185 countries have signed on to this agreement, which was introduced at the Earth Summit in Rio in 1992. Signatories promise to set up for protecting their biodiversity, including habitat protection and restoration.

Water Resources Day

World Water Resources Day is celebrated every year on 22 March with a specific theme. The theme of 2004 was 'Efficiency of Water Resources System' with sub-themes on critical review of current level of efficiency and measures for improving efficiency of water resources systems. The 2004 Water Resources Day -function organised by the Central Water Commission (CWC) highlighted the judicious utilisation of the available water resources in India and the need to conserve these resources to the optimum.

The average run-off in the river system of the country has been assessed as 1869 cubic kilometres. Of this, the utilisable portion by conventional storage and diversion is estimated as about 690 cubic kilometres. In addition, the replenishable ground water potential is estimated to be 432 cubic kilometres.

The per capita availability of water at national level has reduced from about 5177

cubic metres in 1951 to the estimated level of 1869 cubic metres in 2001. The availability of water resources on an annual basis is almost fixed whereas the demands from various sectors are gradually increasing.

Dinosaurs World

Dinosaurs roamed the Earth during the Mesozoic Era. Mesozoic Era is divided into 3 periods: **Triassic Period** (225-195 million years)

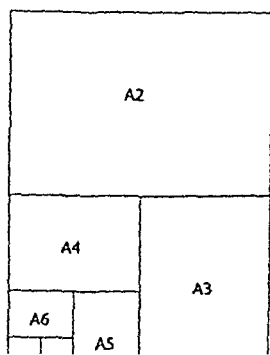
Number	US & France	UK & Other European nations	India
1 & 5 zeros	One Hundred Thousand	One Hundred Thousand	One Lakh
" 6 zeros	Million	Million	Ten Lakh
" 7 zeros	Ten Million	Ten Million	One Crore
" 8 zeros	Hundred Million	Hundred Million	Ten Crore
" 9 zeros	Billion	Milliard (Thousand Million)	Hundred Crore
" 12 zeros	Trillion	Billion
" 15 zeros	Quadrillion	Thousand Billion
" 18 zeros	Quintillion	Trillion
" 21 zeros	Sextillion	Thousand Trillion
" 24 zeros	Septillion	Quadrillion
" 27 zeros	Octillion	Thousand Quadrillion
" 30 zeros	Nonillion	Quintillion
" 33 zeros	Decillion	Thousand Quintillion

* The word 'billion' wherever it is used in this book means a 'thousand million' (American sense) unless otherwise

Traditional paper size	Letter 216 x 279 mm
Foolscap 343 x 432 mm	Legal 216 x 356 mm
Crown 381 x 508 mm	Ledger 432 x 279 mm
Large Post 419 x 533 mm	Book size
Demy 445 x 572 mm	Crown quarto 189 x 246 mm
Medium 457 x 584 mm	Crown octavo 123 x 186 mm
Royal 508 x 635 mm	Large crown quarto 201 x 258 mm
Elephant 508 x 686 mm	Large crown octavo 129 x 198 mm
Imperial 559 x 762 mm	Demy quarto 219 x 276 mm
Office Paper size	Demy octavo 138 x 216 mm
Index card 127 x 203 mm	Royal quarto 237 x 312 mm
Executive 184 x 267 mm	Royal octavo 156 x 234 mm
Foolscap 203 x 330 mm	Paperback A format 111 x 178 mm
Folio/F4 210 x 330 mm	Paperback B format 129 x 198 mm

International Paper Sizes

A series			
A0	841 x 1189	B5	176 x 250
A1	594 x 841	B6	125 x 176
A2	420 x 594	B7	88 x 125
A3	297 x 420	B8	62 x 88
A4	210 x 297	B9	44 x 62
A5	148 x 210	B10	31 x 44
A6	105 x 148		
A7	74 x 105	C Series	
A8	52 x 74	C0	917 x 1297
A9	37 x 52	C1	648 x 917
A10	26 x 37	C2	458 x 648
		C3	324 x 458
		C4	229 x 324
		C5	162 x 229
		C6	114 x 162
B Series			
B0	1000 x 1414		
B1	707 x 1000		



WORLD PANORAMA

**PART
06**

Nations of the World

The Biggest and The Smallest States

The Biggest

In Area

State	Area (Sq km)	Location
Russia	17,075,000	Europe-Asia
Canada	9,976,139	N. America
China	9,561,000	Asia
U.S.A.	9,372,614	N. America
Brazil	8,511,965	S. America
Australia	7,682,300	S. Pacific
India	3,287,263	Asia
Argentina	2,776,654	S. America
Kazakhstan	2,717,300	Asia
Sudan	2,505,813	Africa

In Population

State	Population	Location
China	1,313,973,713	Asia
India	1,095,351,995	Asia
USA	298,444,215	N. America
Indonesia	245,452,739	Asia
Brazil	188,078,227	S. America
Pakistan	165,803,560	Asia
Bangladesh	147,365,352	Asia
Russia	142,893,540	Europe-Asia
Nigeria	131,859,731	Africa
Japan	127,463,611	Asia

The Smallest

In Area

State	Area (sq km)	Location
Vatican City	0.44	Europe
Monaco	1.95	Europe
Nauru	21.10	S. Pacific
Tuvalu	26.00	S. Pacific
San Marino	61.00	Europe
Liechtenstein	160.00	Europe
Marshall Islands	181.00	C. Pacific
St. Kitts-Nevis	269.00	E. Caribbean
Maldives	298.00	Indian Ocean
Malta	316.00	Mediterranean

In Population

State	Population	Location
Vatican City	932	Europe
Tuvalu	11,810	S. Pacific
Nauru	13,287	S. Pacific
Palau	20,579	W. Pacific
San Marino	29,251	Europe
Monaco	32,543	Europe
Liechtenstein	33,987	Europe
St. Kitts-Nevis	39,129	E. Caribbean
Marshall Islands	60,422	N. Pacific Ocean
Antigua and Barbuda	69,108	Caribbean

World Population-2006

Continents	Population
Asia	3,913,842,171
Africa	891,437,541
Europe	729,341,014
North America	512,422,558

Continents	Population
South America	371,271,037
Australia/Oceania	32,744,469
Antarctica	0
Total	6,451,058,790

Nations: a Ready Reckoner

Country	Region	Capital	Currency
1. Afghanistan	S.C. Asia	Kabul	Afgani
2. Albania	S. Europe	Tirana	Lek
3. Algeria	N. Africa	Algiers	Algerian Dinar
4. Andorra	S. Europe	Andorra la Vella	Euro
5. Angola	M. Africa	Luanda	readjusted Kwanza
6. Antigua and Barbuda	Caribbean	St. John's	Eastern Caribbean Dollar
7. Argentina	S. America	Buenos Aires	Peso
8. Armenia	W. Asia	Yerevan	Dram
9. Australia	Oceania	Canberra	Australian Dollar
10. Austria	W. Europe	Vienna	Euro
11. Azerbaijan	W. Asia	Baku	Manat
12. Bahamas, The	Caribbean	Nassau	Bahamian dollar
13. Bahrain	W. Asia	Manama	Bahraini Dinar
14. Bangladesh	S.C. Asia	Dhaka	Taka
15. Barbados	Caribbean	Bridgetown	Barbados dollar
16. Belarus	E. Europe	Minsk	Rouble
17. Belgium	W. Europe	Brussels	Euro
18. Belize	C. America	Belmopan	Belize dollar
19. Benin	W. Africa	Porto-Novo	Franc CFA
20. Bhutan	S.C. Asia	Thimphu	Ngultrum
21. Bolivia	S. America	Sucre	Boliviano
22. Bosnia Herzegovina	S. Europe	Sarajevo	Konvertibilna marka
23. Botswana	S. Africa	Gaborone	Pula
24. Brazil	S. America	Brasilia (Federal)	Real
25. Brunei	S.E. Asia	Bandar Seri Begawan	Brunei dollar
26. Bulgaria	E. Europe	Sofia	Lev
27. Burkina Faso	W. Africa	Ouagadougou	Franc CFA
28. Burundi	E. Africa	Bujumbura	Franc CFA
29. Cambodia	S.E. Asia	Phnom Penh	Riel
30. Cameroon	M. Africa	Yaounde	Franc CFA
31. Canada	N. America	Ottawa	Canadian dollar
32. Cape Verde	W. Africa	Praia	Escudo
33. Central African Republic	M. Africa	N'Goundou	Franc CFA
34. Chad	M. Africa	N'Djamena	Franc CFA

35.	Chile	S. America	Santiago (Adm) Valparaiso (Leg)	Chilean peso
36.	China	E. Asia	Beijing	Renminbi Yuan
37.	Colombia	S. America	Bogota	Colombian Peso
38.	Comoros, The	E. Africa	Moroni	Comorian Franc
39.	Congo (formerly Zaire)	M. Africa	Kinshasa	Congo Franc
40.	Congo	M. Africa	Brazzaville	Franc CFA
41.	Costa Rica	C. America	San Jose	Costa Rican Colon
42.	Cote D' Ivoire	W. Africa	Yamoussoukro	Franc CFA (XOF)
43.	Croatia	S. Europe	Zagreb	Kuna
44.	Cuba	Caribbean	Havana	Cuban peso
45.	Cyprus	W. Asia	Nicosia	Cyprus Pound
46.	Cyprus, Turkish	W. Asia	Nicosia	Cyprus Pound
47.	Czech Republic	E. Europe	Prague	Koruna
48.	Denmark	N. Europe	Copenhagen	Danish Krone
49.	Djibouti	E. Africa	Djibouti	Djibouti Franc
50.	Dominica	Caribbean	Roseau	East Caribbean Dollar
51.	Dominican Republic	Caribbean	Santo Domingo	Peso
52.	East Timor	S.E. Asia	Dili	US Dollar
53.	Ecuador	S. America	Quito	US Dollar
54.	Egypt	N. Africa	Cairo	Egyptian Pound
55.	El Salvador	C. America	San Salvador	Colon
56.	Equatorial Guinea	M. Africa	Malabo	Franc CFA (XAF)
57.	Eritrea	E. Africa	Asmara	Nakfa
58.	Estonia	N. Europe	Tallinn	Kroon
59.	Ethiopia	E. Africa	Addis Ababa	Birr
60.	Fiji Islands	Oceania	Suva	Fiji Dollar
61.	Finland	N. Europe	Helsinki	Euro
62.	France	W. Europe	Paris	Euro
63.	Gabon	M. Africa	Libreville	Franc CFA
64.	Gambia, The	W. Africa	Banjul	Dalasi
65.	Georgia	W. Asia	Tbilisi	Lari
66.	Germany	W. Europe	Berlin	Euro
67.	Ghana	W. Africa	Accra	Cedi
68.	Greece	S. Europe	Athens	Euro
69.	Grenada	Caribbean	St. George's	Eastern Caribbean Dollar
70.	Guatemala	C. America	Guatemala City	Quetzal
71.	Guinea	W. Africa	Conakry	Guinean Franc
72.	Guinea-Bissau	W. Africa	Bissau	Franc CFA
73.	Guyana	S. America	Georgetown	Guyana Dollar
74.	Haiti	Caribbean	Port-au-Prince	Gourde
75.	Honduras	C. America	Tegucigalpa	Lempira
76.	Hungary	E. Europe	Budapest	Forint

Iceland	N. Europe	Reykjavik	Krona
India	S.C. Asia	New Delhi	Rupee
Indonesia	S.E. Asia	Jakarta	Rupiah
Iran	S.C. Asia	Tehran	Rial
Iraq	W. Asia	Baghdad	Iraqi Dinar
Ireland	N. Europe	Dublin	Euro
Israel	W. Asia	Jerusalem	Shekel
Italy	S. Europe	Rome	Euro
Jamaica	Caribbean	Kingston	Jamaican Dollar
Japan	E. Asia	Tokyo	Yen
Jordan	W. Asia	Amman	Jordan Dinar
Kazakhstan	S.C. Asia	Astana	Tenge
Kenya	E. Africa	Nairobi	Shilling
Kiribati	Oceania	Bairiki (Tarawa)	Australian Dollar
Korea, North	E. Asia	Pyeongyang	won
Korea, South	E. Asia	Seoul	Won
Kuwait	W. Asia	Kuwait	Kuwaiti Dinar
Kyrgyzstan	S.C. Asia	Bishkek	Som
Laos	S.E. Asia	Vientiane	Kip
Latvia	N. Europe	Riga	Lats
Lebanon	W. Asia	Beirut	Lebanese Pound
Lesotho	S. Africa	Maseru	Loti
Liberia	W. Africa	Monrovia	Liberian Dollar
Libya	N. Africa	Tripoli	Libyan Dinar
Liechtenstein	W. Europe	Vaduz	Swiss Currency
Lithuania	N. Europe	Vilnius	Litas
Luxembourg	W. Europe	Luxembourg	Euro
Macedonia	S. Europe	Skopje	Denar
Madagascar	E. Africa	Antananarivo	Malagasy Franc
Malawi	E. Africa	Lilongwe	Kwacha
Malaysia	S.E. Asia	Putrajaya (Adm) Kuala Lumpur (Fin.)	Ringgit
Maldives	S.C. Asia	Male	Rufiyaa
Mali	W. Africa	Bamako	Franc CFA
Malta	S. Europe	Valletta	Maltese Lira
Marshall Islands	Oceania	Majuro Atoll	US Currency
Mauritania	W. Africa	Nouakchott	Ouguiya
Mauritius	E. Africa	Port Louis	Mauritius Rupee
Mexico	C. America	Mexico City	Mexico Peso
Micronesia	Oceania	Palikir	US Currency
Moldova	E. Europe	Chisinau	Leu
Monaco	W. Europe	Monaco	Euro
Mongolia	E. Asia	Ulan Bator	Tugrik

119.	Montenegro	S.E. Europe	Podgorica	Euro
120.	Morocco	N. Africa	Rabat	Dirham
121.	Mozambique	E. Africa	Maputo	Metical
122.	Myanmar	S.E. Asia	Yangon (Rangoon)	Kyat
123.	Namibia	S. Africa	Windhoek	Namibia Dollar
124.	Nauru	Oceania	Yaren	Australian Dollar
125.	Nepal	S.C. Asia	Kathmandu	Nepalese Rupee
126.	Netherlands, The	W. Europe	Amsterdam	Euro
127.	New Zealand	Oceania	Wellington	New Zealand Dollar
128.	Nicaragua	C. America	Managua	Cordobas
129.	Niger	W. Africa	Niamey	Franc CFA
130.	Nigeria	W. Africa	Abuja	Naira
131.	Norway	N. Europe	Oslo	Norwegian Krone
132.	Oman	W. Asia	Muscat	Rial Omani
133.	Pakistan	S.C. Asia	Islamabad	Pakistan Rupee
134.	Palau	Oceania	Koror	US currency
135.	Palestine*	W. Asia	Ramallah	New Shekel
136.	Panama	C. America	Panama City	Balboa
137.	Papua New Guinea	Oceania	Port Moresby	Kina
138.	Paraguay	S. America	Asuncion	Guarani
139.	Peru	S. America	Lima	Nuevo Sol
140.	Philippines, The	S.E. Asia	Manila	Peso
141.	Poland	E. Europe	Warsaw	Zloty
142.	Portugal	S. Europe	Lisbon	Euro
143.	Qatar	W. Asia	Doha	Qatari
144.	Romania	E. Europe	Bucharest	Leu
145.	Russia	E. Europe	Moscow	Rouble
146.	Rwanda	E. Africa	Kigali	Rwanda Franc
147.	Samoa	Oceania	Apia	Tala
148.	San Marino	S. Europe	San Marino	Euro
149.	Sahrawi Arab Demo* Rep. (S.A.D.R.), Western Sahara	El-Aaiun		N. Africa
150.	Sao Tome & Principe	M. Africa	Sao Tome	Dobra
151.	Saudi Arabia	W. Asia	Riyadh	Rial
152.	Senegal	W. Africa	Dakar	Franc CFA
153.	Serbia	S. Europe	Belgrade	Dinar
154.	Seychelles	E. Africa	Victoria	Seychelles Rupee
155.	Sierra Leone	W. Africa	Freetown	Leone
156.	Singapore	S.E. Asia	Singapore City	Singapore Dollar
157.	Slovakia	E. Europe	Bratislava	Slovak Koruna
158.	Slovenia	S. Europe	Ljubljana	Tolar
159.	Solomon Islands	Oceania	Honiara	Solomon Island Dollar
160.	Somalia	E. Africa	Mogadishu	Somali Shilling

Spain	S. Europe	Madrid	Euro
Sri Lanka	S.C. Asia	Colombo	Sri Lankan Rupee
St. Kitts and Nevis	Caribbean	Basseterre	Caribbean dollar
St. Lucia	Caribbean	Castries	Caribbean Dollar
St. Vincent and the Grenadines	Caribbean	Kingstown	East Caribbean Dollar
Sudan	N. Africa	Khartoum	Sudanese Pound
Suriname	S. America	Paramaribo	Suriname Guilder
Swaziland	S. Africa	Mbabane	Lilangeni
Sweden	N. Europe	Stockholm	Krona
Switzerland	W. Europe	Berne	Swiss Franc
Syria	W. Asia	Damascus	Syrian Pound
Taiwan	S. Asia	Taipei	New Taiwan Dollar
Tajikistan	S.C. Asia	Dushanbe	Tajik Rouble
Tanzania	E. Africa	Dodoma	Tanzanian Shilling
Thailand	S.E. Asia	Bangkok	Baht
Togo	W. Africa	Lome	Franc CFA
Tonga	Oceania	Nuku alofa	Paanga
Trinidad and Tobago	Caribbean	Port-of-Spain	Trinidad and Tobago Dollar
Tunisia	N. Africa	Tunis	Tunisian Dinar
Turkey	W. Asia	Ankara	Turkish Lira
Turkmenistan	S.C. Asia	Ashgabat	Manat
Tuvalu	Oceania	Fongafale(Funafuti)	Australian Dollar
Uganda	E. Africa	Kampala	Uganda Shilling
Ukraine	E. Europe	Kyiv	Hryvna
United Arab Emirates	W. Asia	Abu Dhabi	Dirham
United Kingdom	N. Europe	London	Pound Sterling
United States of America	N. America	Washington	D.C. Dollar
Uruguay	S. America	Montevideo	Uruguayan Peso
Uzbekistan	S.C. Asia	Tashkent	Soum
Vanuatu	Oceania	Vila	Vatu
Vatican City	S. Europe	Vatican City	Euro
Venezuela	S. America	Caracas	Bolivar
Vietnam	S.E. Asia	Hanoi	Dong
Yemen	W. Asia	Sana'a	Riyal
Zambia	E. Africa	Lusaka	Kwacha
Zimbabwe	E. Africa	Harare	Zimbabwe Dollar

Europe: Southern Europe; N. Europe: Northern Europe; E. Europe: Eastern Europe; W. Asia: Western Asia; E. Asia: Eastern Asia; S.E. Asia: South East Asia; S.C. Asia: South Central Asia; S. America: South America; N. America: North America; C. America: Central America; N. Africa: North Africa; E. Africa: East Africa; S. Africa: South Africa; M. Africa: Middle Africa.

NATIONS, alphabetically arranged

1. Afghanistan

Islamic State of Afghanistan



Capital: Kabul; Other Large Cities : Kandahar, Herat, Mazare-Sharif; Area: 647,497 sq.km; Population: 31,056,997; Languages: Pushtu and Persian; Religions: Sunni Muslim-80%, Shia Muslim-19%, others-1%; Literacy: 36%; Life Expectancy: 43.34; Currency: Afghani (\$1 = 43); p.c.i.: \$ 800; Date of Independence: 19th August 1919.

Government Type: Islamic Republic; President: Hamid Karzai.

History: Afghanistan is a land-locked republic in Central Asia known originally as Ariana or Bactria, then as Khorasan (the land of the Rising Sun). Afghanistan has suffered from such chronic instability and conflict during its modern history that its economy and infrastructure are in ruins, and many of its people are refugees. Monarchy was overthrown in 1973, and a marxist 'people's republic' was created by Noor Taraki's coup of 1978. In 1986, Lt. Gen. Najibullah became President. Soviet troops, which had occupied

the country in 1979, faced resistance from Afghan tribesmen 'Mujahideen' (holy warriors). Soviet troops were withdrawn in 1989. In Feb. a military council headed by Najibullah was announced. Afghan rebels elected Sigbha-tullah Mojaddidi as President of an interim government in exile. He handed over power to a Mujahideen leadership council.

The Mujahideen factions that captured Kabul in Apr. '92 began internecine fighting. Half the population of Kabul fled the city. In January 1994 President Burhanuddin Rabbani and PM Gulbuddin Hekmatyar parted ways. A few months later a newly formed Islamic movement 'Taliban' (i.e. 'students of religion') emerged as a new force. In 1995, they were in control of around a third of the country. In June 1996, Gulbuddin Hekmatyar again joined Rabbani and was sworn in PM but Rabbani was overthrown in Sept. by Taliban which imposed harsh Islamic laws and executed former President Najibullah. A Taliban offensive on 27 December, 1996 gave Taliban control of 90% of the country. In November, Taliban was overthrown by the Northern Alliance with US support. On April 18, 2002, former King of Afghanistan, Mohammed Zahir Shah, returned to Kabul after 29 years in exile in Italy. In June, Hamid Karzai, leader of the interim administration, was elected in a landslide vote to be the next President. NATO took command of the 5000-strong international peacekeeping force in Kabul in August.

Economy: Agriculture is the mainstay of the economy. The principal crop is wheat. Animal husbandry is important for meat, milk and wool. Chief mineral resource: natural gas. The main industrial activity is the

Note : p.c.i.: per capita income: GNI per capita (PPP\$).
The boundaries of maps not true to scale.

manufacture of woollen and cotton textiles; traditional handicrafts and woven carpets are important exports. Afghanistan produces 3400 tonnes of opium worth (\$1.2b.) a year.

Recent Events: In January 2006, more than 30 people were killed in a series of suicide attacks in southern Kandahar province. International donors meeting in London pledged more than \$10 bn in reconstruction aid for five years. In May-June scores of people were killed in battles between Taliban fighters and Afghan and coalition forces in the south during an offensive known as Operation Mountain Thrust.

Mission in India: Embassy of Afghanistan, 5/50F, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 26883602, 24103331, 24100412; Fax: 26875439.

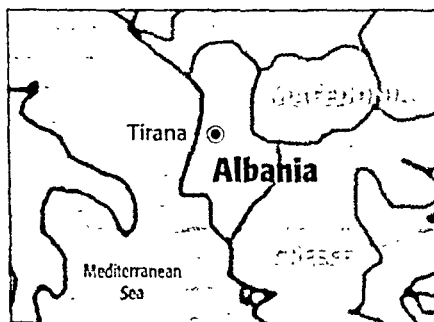
E-mail: afghanembassy@rediffmail.com

Indian Mission In Afghanistan (Temporarily closed): Embassy of India, Malalai Wat, Shahre-Nau, Kabul, Afghanistan.

Tel: 00-873-763095560; Fax : 00-873-763095561. E-mail: indembkabul@nic.in

2. Albania

Republic of Albania (Republika e Shqipërisë)



Capital: Tirana ; **Area:** 28,748 sq. km; **Population:** 3,581,655; **Languages:** Albanian, Greek; **Religions:** Islam-70%, Albanian Orthodox-20%; Roman Catholic-10%; **Literacy:** 86.5%; **Life Expectancy:** 77.43; **Currency:** Lek (\$1=97.50); **p.c.i.:** \$ 4,900; **Date of Independence:** 28th November, 1912.

First Atheist Country

Albania was the only officially atheist country in the world (1967-1990). Under Communist rule, all forms of religion, including private prayer in the home and owning religious icons, were forbidden. Today, religious freedom is entrenched in Albanian law, but the legacy of 50 years without religion is that many established denominations are as foreign to most Albanians as the average cult.

Government Type: Democracy; **President:** Alfred Moisiu; **PM:** Sali Berisha.

History: Albania lies on the west coast of the Balkan peninsula in south-east Europe. Albania was established as an independent state in 1912. Republic was formed in 1920. After world War II, Albania became a Stalinist state under Enver Hoxha, and remained staunchly isolationist until its transition to democracy after 1990. The 1992 elections ended 47 years of communist rule. It became Europe's first muslim state in Dec. 1992.

Albania descended into anarchy and chaos in early 1997 when widespread protests over failed high-risk investment funds (pyramid finance scheme) turned into a drive to oust the government of Dr. Sali Berisha, which was blamed for allowing fraudulent investment schemes and accused of profiting from them. Violence erupted and Albanians fled by the thousands to Greece and Italy. Security Council authorised a UN force for Albania. Elections were held in June-July. Berisha quit in disgrace.

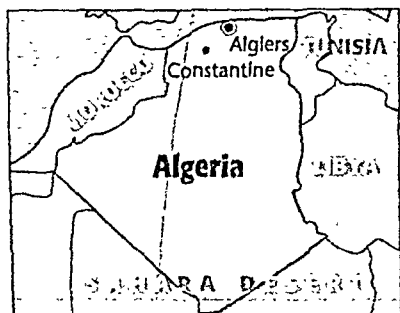
People are mostly Muslims. Public worship was outlawed in 1957. The right to practise religion was restored in 1990. Liberalisation measures included freedom to travel abroad. Albania left the Organisation of Islamic Conference (OIC) in Aug. '98.

Economy: More than half of GDP comes from agriculture, though despite extensive terracing only around one-quarter of the country is suitable for arable farming. Important minerals: coal, oil, chrome, copper and nickel. Industries: textiles, woollen fabrics, leather goods, petrol, cement, sugar, beer and cigarettes.

Mission in India: Embassy of Albania stationed at Cairo.

3. Algeria

People's Democratic Republic of Algeria (Al-3.



Jumhuriya Al-Jaazairiya ad-Dimuqratiya ash-Shabiya)

Capital: Algiers; **Other Large Cities :** Oran, Constantine, Annaba; **Area:** 2,381,741 sq.km; **Population:** 32,930,091; **Languages:** Arabic, Berber and French; **Religions:** Islam-99%, Christian and Jewish-1%; **Literacy:** 70%; **Life Expectancy:** 73.26; **Currency:** Dinar (DA) (\$1=73.285); **p.c.i:** \$ 7,200.; **Date of Independence:** 5th July, 1962.

Government Type: Republic; **President:** Abdelaziz Bouteflika. **PM:** Abdelaziz Belkhadem.

History: Algeria, formerly a French colony, is an independent republic in north west Africa and extends for 1000 km along the shores of the Mediterranean. Algeria became an independent republic in 1962.

Thousands have lost their lives in a civil war that started in 1992. Islamic fundamen-

talist party (Islamic Salvation Front) claims it was stripped of an electoral victory in the 1992 general elections. Elections were held in June '97 and the country's first multi-party legislature was sworn in. Massacres continued. Gradually peace returned to Algeria. A referendum was held in Sept. '99 on the peace plan to end the 7-year Islamic insurgency. About 100,000 people have been killed during the insurgency.

Economy: Agricultural products include wheat, barley, potatoes, artichokes, flax and tobacco. Fruits like dates, pomegranates and figs grow in abundance. Wine and olive oil are also produced. Chief occupation: cattle raising. Minerals :iron, zinc, mercury, copper, antimony, phosphates and petroleum. Industries: oil, light industry, food processing.

Mission in India: Embassy of the People's Democratic Republic of Algeria, E-6/5, Vasant Vihar, New Delhi-110057. Tel: 26146706, 26147036, 26147611; Fax: 26147033

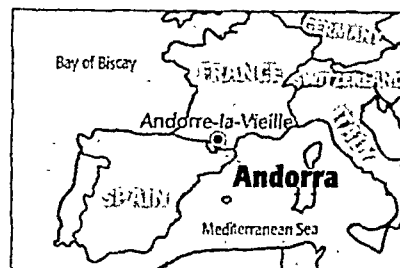
E-mail: embalgindia@hotmail.com

Indian Mission in Algeria: Embassy of India, 14, Rue des Abassides, Post Box No. 108 El-Bias- 16030 Algiers, Algeria. Tel: 00-213-21-923288; Fax: 00-213-2-924011.

Email: indemb@wissal.dz

4. Andorra

Principality of Andorra (Principat d' Andorra)



Capital: Andorre-la-Vieille; **Area:** 464 sq.km; **Population:** 71,201; **Language:** Catalan,

French, Castilian; Religions: Predominantly Roman Catholic; Literacy: 100%; Life Expectancy: 83.5; Currency: Euro (\$1=0.79120); p.c.i: \$ 24,000; Date of Independence: 1278 (was formed under the joined suzerainty of the French count of Foix and the Spanish bishop of Urgel).

Government Type: Parliamentary Democracy; **Head of State:** President of France and the Bishop of Urgel (Spain) as co-princes. **Head of govt:** Albert Pintat Santolaria.

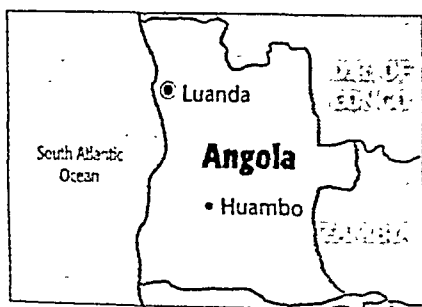
History: The co-principality of Andorra, founded in 1278, lies in the valleys of Eastern Pyrenees, between France and Spain.

Andorra, autonomous and semi-independent, got a constitution in 1993, adopted a parliamentary system and became the 184th member of the UN. It is nominally subject to the suzerainty of France and the Bishop of Urgel in Spain. The government is carried on by a council of 28 elected members.

Economy: Andorra is an agricultural country. Crops: cereals, potatoes and tobacco. Products: iron, lead, alum, stone and timber. Tourism especially skiing is the main source of income.

5. Angola

Republic of Angola (Republica de Angola)



Capital: Luanda; **Other Large Cities:** Huambo, Lubango; **Area:** 1,246,699 sq.km; **Population:** 12,127,071; **Languages:** Portuguese, Bantu; **Religions:** Indigenous beliefs 47%, Roman Catholic-38%, Protestant-15%; **Literacy:**

Angolan Media

Angola's only daily newspaper, *Journal de Angola*, and the terrestrial TV service *TPA* are state-owned. Private radio stations operate in the main cities, including Catholic station *Radio Ecclesia*, but state-run radio is the only available broadcaster across much of the country.

66.8%; **Life Expectancy:** 36.79; **Currency:** Re-adjusted Kwanza (\$1=80.3749); **p.c.i:** \$ 3,200; **Date of Independence:** 11th November, 1975.

Government Type: Republic; **President:** Jose Eduardo dos Santos; **PM:** Fernando da Piedade Dias dos Santos.

History: Angola, (formerly Portuguese West Africa), which lies in South West Africa on the Atlantic coast, became an independent state in 1975.

A 16-year Civil War ended in 1991 but fighting between MPLA (People's Liberation Movement of Angola) and UNITA (National Union for the Total Independence of Angola) broke out again. Elections were held in 1992 but fighting continued into 1993 and 1994. A new peace treaty was signed in Nov. 94 but little was gained. In August, '95, rebel (UNITA) leader Jonas Savimbi accepted the invitation to become Vice President in a coalition government to be formed after nearly two decades of civil war that devastated the country.

Apr.11, 1997, saw a ceremony marking the end of the Angolan civil war that killed half a million people, and the formation of a national unity government. In March, '98, Angolan govt. legalised UNITA. Another deadline was set for the final implementation of the Lusaka Protocol marking the end of civil war in Angola. August saw signs of the country sliding back into old tribal and regional animosities. The UN ended its mission

in Angola in March '99. Rebels captured most parts of the country. Jonas Savimbi, the UNITA leader, was killed in 2003.

Economy: Food crops: millet, maize, bananas and cassava. Cash crops: coffee, cotton, oil palm and sisal. Industries: textiles, brewing, cement, oil refining and sugar. Producing 700,000 barrels a day. Angola is the second largest oil-producer in sub-Saharan Africa (behind Nigeria). Angola produces about one-tenth of the world's gemstones. Exports: crude petroleum, coffee, diamonds, iron ore, fish, sisal and timber.

Recent Events: Outbreak of the killer Marburg virus claimed 180 lives in the Angolan town Viga.

Mission in India: Embassy of the Republic of Angola, 5/50 F, Nyaya Marg, Chanakya puri, New Delhi-110 021; Tel: 26110701, 26882680; Fax: 26110701, 24673787.

E-mail: xietuang@del2.vsnl.net.in.

Consulate: Mumbai: Tel:22851430/1457/6070, Fax:22875467.

E-mail: maria@bom3.vsnl.net.in

Indian Mission in Angola: 18A Rua Marques das Minus, Caixa Postal 6040, Maculusso, Luanda, Angola. Tel: (00 2442) 392281, 371089, Fax (00 2442) 371094.

E-mail: indembluanda@ebonet.net

6. Antigua & Barbuda



Capital: St. John's; **Area:** 442 sq km; **Population:** 69,108; **Languages:** English and Patois; **Religions:** Predominantly Protestant, some

Roman Catholic; **Literacy:** 85.8%; **Life Expectancy:** 72.16; **Currency:** East Caribbean Dollar US (\$1=2.70); **p.c.i:** \$ 11,000; **Date of Independence:** 1st Nov., 1981.

Government Type: Constitutional monarchy with UK-style Parliament; **Governor-General:** James Carlisle; **PM:** Winston Baldwin Spencer.

History: Antigua and Barbuda, part of the Islands of British West Indies, comprises three Islands: Antigua, Barbuda and (uninhabited) Redonda. Columbus landed on Antigua in 1493. Became independent on Nov. 1, 1981.

The population is of mixed European-Negro origin. About 3000 refugees fleeing a volcanic eruption on Montserrat have settled in Antigua since 1995.

Economy: The economy is agricultural. Main exports: Sugar and sea island cotton. Tourism is a major source of income. Manufactures: garments, fans, refrigerators and rum.

Mission in India: Embassy of Antigua & Barbuda stationed at New York.

7. Argentina

Argentine Republic (Republica Argentina)



Capital: Buenos Aires; **Other Large Cities:** Cordoba, Rosario, La Plata, Mendoza; **Area:** 2,766,654sq.km; **Population:** 39,921,833; **Languages:** Spanish, Italian; **Religions:** Roman Catholic-92%, Protestant-2%, Jewish-2%, Others-4%; **Literacy:** 97.1%; **Life Expectancy:**

76.12; Currency: Peso (\$1=3.07850); p.c.i.: \$ 13,100.; Date of Independence: 5th July, 1816

Government Type: Republic; **Head of State & Govt (President):** Nestor Carlos Kirchner.

History: Argentina, the second largest state in S. America, lies at the tip of South America extending to some 3700 km from Bolivia to Cape Horn. Its maximum width is 1500 km. Argentina proclaimed its independence in 1816. A military junta deposed Isabel Peron's government in 1972. Return to civilian rule in 1983. In 1982, Argentina lost the Falkland Island war to Britain.

Economy: Argentina abounds in deposits of coal, lead, copper, zinc, gold, silver, sulphur and oil. Meat packing is the chief industry, with flour milling coming second. Others are chemicals, textiles, machinery, motor vehicles, paper and consumer durables. Agriculture and animal husbandry form important segments of the economy. Chief crops: grains, maize, grapes, linseed, sugar, tobacco, rice, citrus fruits, livestock products. Argentina is the world's largest source of tannin.

Argentina has been in the news in recent years because of severe economic problems, foreign debt and inflation.

In 2002, former dictator Gen. Leopoldo Galtieri was arrested and charged with the murder of suspected dissidents two decades ago.

Recent Events: In January 2006, Argentina repaid its multi-billion-dollar debt to the IMF. In May, citing environmental concerns, Argentina filed a complaint against the construction of two pulp mills in neighbouring Uruguay at the International Court of Justice in The Hague.

Mission in India: Embassy of the Argentine Republic, E-2, Arco Iratyan, New Delhi-110021. Tel: 51661982-84, 51661997, Fax: 51661998.

E-mail: ind@embantraonline.com

Indian Mission in Argentina: Embassy of India, Avda Cordoba 950, 4th Floor, (1054)

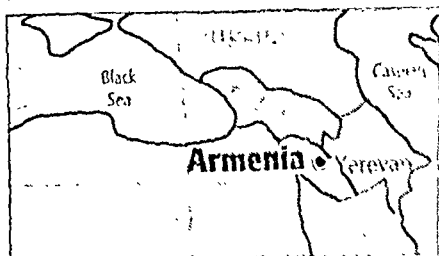
Buenos Aires, Argentina. Tel: 00-54-11-43934001, 00-54-11-4934156; Fax: 00-54-11-43934063.

E-mail: indemb@indembarg.org.ar

Website: www.indembarg.org.ar

8. Armenia

Republic of Armenia (Haikakan Hanrapetoutioun)



Capital: Yerevan; **Other Large Cities:** Kirovakan, Kumairi; **Area:** 29,800 sq km; **Population:** 2,976,372; **Languages:** Armenian; **Religions:** Armenian Apostolic 94.7%, Other Christian 4%, Yezidi 1.3%, Hittite 98.6%; **Life Expectancy:** 71.84; **Currency:** the dram (\$1=422.500); p.c.i.: \$ 4,500; **Date of Independence:** 21st September, 1991.

Government Type: Republic; **President:** Robert Kocharyan; **PM:** Andranik Markarian.

History: A former Soviet republic, Armenia is bounded by Georgia, Azerbaijan, Turkey and Iran. Armenia is generally regarded as the first nation to formally adopt Christianity (early 4th century). Despite periods of autonomy, over the centuries Armenia came under the sway of various empires including the Roman/Byzantine, Arab, Persian and Ottoman. During World War I in the western portion of Armenia, Ottoman Turkey instituted a policy of forced resettlement coupled with other harsh practices that resulted in an estimated 1 million Armenian deaths. The eastern area of Armenia was ceded by the Ottomans to Russia in 1828; this portion declared its independence in 1918, but was conquered by the Soviet Red Army.

in 1920. Armenian leaders remain preoccupied by the long conflict with Muslim Azerbaijan over Nagorno-Karabakh, a primarily Armenian populated region, assigned to Soviet Azerbaijan in the 1920s by Moscow. Armenia and Azerbaijan began fighting over the area in 1988.

Armenia has sought reunification with the Nagorno Karabakh autonomous region of neighbouring Azerbaijan. Soviet troops were sent to quell the ethnic civil war with Azerbaijan in Jan., 1990. Fighting between mostly Christian Armenia and mostly Muslim Azerbaijan escalated in '92 and continued in '93 and '94. A ceasefire was announced in May, '94. An earthquake in Dec., 1988 killed 55,000 and left 500,000 homeless.

Russia's staunch ally, Armenia signed a treaty in Apr. '97 allowing Russia to operate military bases in Armenia for 25 years.

Economy: It is a mountainous country with very fertile soil and extensive irrigation. Important crops: Grains, potatoes, olive, almonds, grapes, cotton, dairy products. Natu-

ral resources: Copper, zinc, aluminium, molybdenum, marble, granite, cement. Industry: Chemical, cement, textiles, food industries, carpet-weaving.

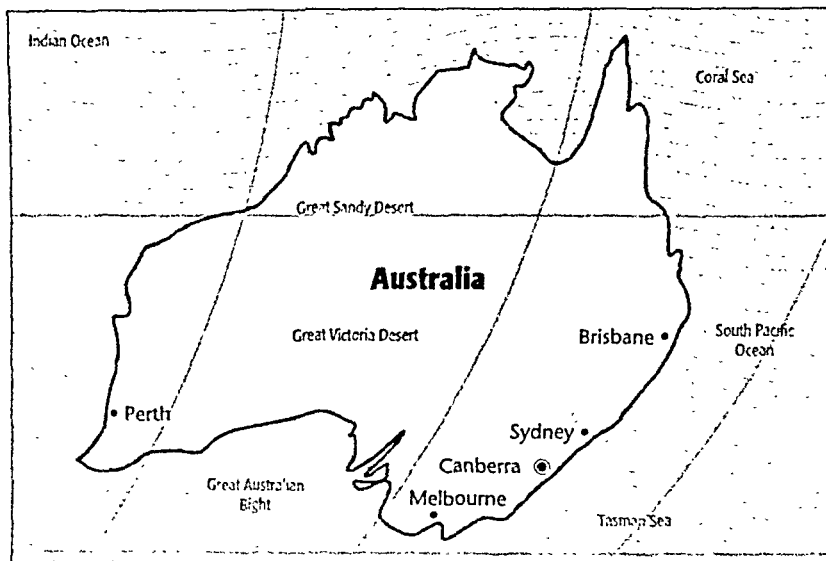
Mission in India: Embassy of the Republic of Armenia, E-1/20, Vasant Vihar, New Delhi-110 057. Tel: 26147328, 26153031; Fax: 26147329. E-mail: armemb@vsnl.com
E-mail: armemb@vsnl.com

Indian Mission in Armenia: Embassy of India, 50/2, Pioneerakan Street, Yerevan- 375019; Tel: 00-374-1-539173, 538288; Fax: 00-374-1-533984. E-mail: inemyr @armenco.com

9. Australia

Commonwealth of Australia

Capital: Canberra; **Other Large Cities:** Sydney, Melbourne, Brisbane, Perth, Adelaide; **Area:** 7,682,300 sq .km; **Population:** 20,264,082; **Languages:** English and aboriginal languages; **Religions:** Catholic-26.4%, Anglican-20.5%, Other Christian-20.5%, Buddhist-1.9%, Muslims-1.5%, other-1.2%, unspecified - 12.7 %



none-15.3%; **Literacy:** 99%; **Life Expectancy:** 80.5% ; **Currency:** Australian Dollar US (\$1=1.35); **p.c.i:** \$ 31,900; **Date of Independence:** 1st January, 1901.

Government Type: Democratic; **Governor-General:** Maj. Gen. Michael Jeffery; **PM:** John Winston Howard.

History: Before the arrival of European settlers, Aboriginal and Torres Strait Islander peoples inhabited most areas of the Australian continent. The first recorded European contact with Australia was in March 1606, when Dutch explorer Willem Janszoon charted the west coast of Cape York Peninsula, Queensland. Later that year, the Spanish explorer Luis Vaez de Torres sailed through the strait separating Australia and Papua New Guinea. Over the next two centuries, European explorers and traders continued to chart the coastline of Australia, then known as New Holland. In 1688, William Dampier became the first British explorer to land on the Australian coast. It was not until 1770 that another Englishman, captain James Cooke, aboard the Endeavour, extended a scientific voyage to the South Pacific in order to further chart the east coast of Australia and claim it for the British crown. Six colonies were created in the late 18th and 19th centuries; they federated and became commonwealth of Australia in 1901. The non-indigenous population at the time of Federation was 3.8 million. Half of these lived in cities, three-quarters were born in Australia, and the majority were of English, Scottish or Irish descent.

Australia is a Federation with power divided broadly between the national government and the state governments. The states are New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania, Northern Territory and Australian Capital Territory.

About 352,970 people identified themselves as being of indigenous origin, at the 1996 census. About half the aborigines live in cities or towns. They participate at all levels of

life of the Australian community. Many aborigines still live in the remote areas of Australia and prefer traditional tribal oriented lifestyles. The boomerang was invented by the aborigines who have been there for more than 40,000 years.

In March 1986, Queen Elizabeth II signed the Proclamation of the Australia Act 1986, which severed Australia's last remaining constitutional links with Britain. Queen Elizabeth is formally Queen of Australia. In Feb., 98 Australians discussed at a constitutional convention whether to become a republic, with majority of delegates thinking that British queen as head of state is an outdated idea. However, opinion polls favoured monarchists.

Economy: Australia has now developed into a modern industrial nation built upon the solid foundation of an efficient and productive agricultural system and large reserves of minerals. Australia is an important producer and exporter of a wide range of agricultural products especially wool (Australia is the world's leading wool producer), wheat and meat and its mines provide minerals and metals of many types including coal, iron-ore, bauxite, gold, silver, lead, zinc, copper, nickel, oil and natural gas for use by local and overseas industries. The largest employer is the retail sector, but many others work in catering which also involves feeding more than four million tourists who arrive each year. The three best known icons of the country are Ayers Rock, the Great Barrier Reef and the Sydney Opera House, in addition to a bevy of world-class theme and heritage parks.

Australia has many unique plant and animal species including kangaroos, koalas, platypuses, dingos, Tasmanian devils, wombats and frilled lizards.

Australian external territories: Norfolk Island, Coral Sea Islands Territory, Territory of Ashmore and Cartier Islands, Cocos (Keeling) Island, Kiritimati (Christmas Island) and Australian Antarctic Territory, the Heard Island and Mc Donald Islands.

Recent Events: In January, 2006, Australia and East Timor signed a deal to divide billions of dollars in expected revenues from oil and gas deposits in the Timor Sea. Under the agreement, discussions on a disputed boundary were postponed.

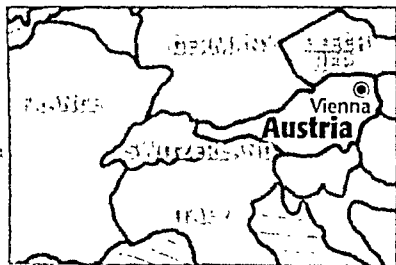
Mission In India: High Commission for Australia, 1/50-G, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 51399900, 51221000 (Visa). E-mail: mark.webster@dfat.gov.au. Web: govindia.com

Indian Mission in Australia: High Commission of India, 3-5, Moonah Place, Yarralumla, Canberra ACT-2600, Australia. Tel: 00-61-2-62733999; 62733774, 00-61-2-62735479 (After office hours); Fax: 00-61-2-62731308, 6273328 (HC Office).

E-mail: consularcanb@bigpond.com (Consular); hcoffice@bigpond.com (HC).

10. Austria

Republic of Austria (Republik Österreich)



Capital: Vienna; **Other Large Cities:** Graz, Linz, Salzburg, Innsbruck; **Area:** 83,858 sq .km; **Population:** 8,192,880; **Languages:** German; **Religions:** Roman Catholic-74%, Protestant-5%, Islam-4%, others-17%; **Literacy:** 98%; **Life Expectancy:** 79.07 ; **Currency:** Euro(\$1= 0.79120); **p.c.i:** \$ 32,700; **Date of Independence:** 1156.

Government Type: Federal Republic;
President: Heinz Fischer; **Head of Govt:** Chancellor Wolfgang Schuessel.

History: Famous for its spectacular moun-

tains scenery, Austria is no longer the dominant political force it was in Central Europe under the Hapsburg dynasty which ruled under the first world war. A republic since 1918, Austria, which was invaded by Nazi Germany in 1938, regained full sovereignty in 1955. Austria is a federal state of nine provinces. Austria joined the EU on Jan. 1, 1995. Over 65 per cent of the country is mountainous. The Danube is the main river. Forests cover about 40 per cent of the land, a greater proportion than in any other European country, apart from Sweden and Finland. The highest mountain is the Gross-glockner (12,465').

Economy: It depends mainly on mining, manufacturing, trade and services. Most Austrian are now employed in service industries, from banking to transport. Main agricultural products: livestock, forest products, grains, sugar beets, potatoes.

Austria is rich in mineral and energy resources, and both mining and energy production are nationalized industries. The country is the world's largest producer of magnesite, used in the chemical industry. Other materials mined include iron ore, lignite (brown coal), graphite, salt, quartz and clay. Austria is the world's fifth largest exporter of coniferous sawn timber. Services account for the largest share (60%) of GDP.

Mission in India: Embassy of Austria, EP-13, Chandragupta Marg, Chanakyapuri, New Delhi-110021. Tel: 26889050/049/; Fax: 26886929/26886033

E-mail: new-delhi-ob@bmaa.gv.at

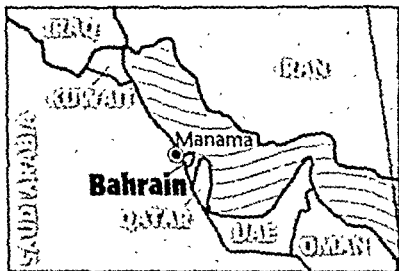
Indian Mission in Austria: Embassy of India and Permanent Mission of India to the UN Offices in Vienna, Kaerntnerring 2, A-1015 Vienna, Austria. Tel: 00-43-1-5850795; Fax: 00-43-1-5059219

E-mail: indemb@eoivien.vienna.at; Web: www.indiaembassy.at

grown. Industries: Tourism accounts for around 40% of GDP and employs a similar proportion of the workforce. Tourism (70% of GDP), banking and investment management.

13. Bahrain

State of Bahrain/Dawlat al-Bahrayn



Capital: Manama; Area: 669 sq .km.; Population: 698,585; Languages: Arabic, English, Farsi, Urdu; Religions: Muslim(Shi'a and Sunni) -81.2%, Christian - 9%, other-9.8%; Literacy: 89.1%; Life Expectancy: 74.45; Currency: Bahraini Dinar (\$ 1 = 0.377); p.c.i: \$23,000; Date of Independence: 15th August, 1971.

Government Type: Constitutional Hereditary Monarchy; **Head of State:** King Hamad bin Isa Al-Khalifa; **PM:** Shaikh Khalifa bin Sulman Al-Khalifa.

History: Bahrain, a British protectorate for 90 years, became an independent state on Aug. 15, 1971. It is an Arab state comprising 33 small islands in the Arabian Gulf. Bahrain is the biggest of the islands and has lent its name to the whole archipelago. It is an independent monarchy.

The traditional occupations of cattle breeding, agriculture and fishing are still practised but many modern industries have also come up. Oil accounted for the lion's share of the state revenues but by 1970s, oil reserves were depleted. International banking is a major activity today.

Economy: Agriculture: Fruits and vegetables, alfalfa, dates, poultry. Industry: Aluminium, ship building & repairs, electronics assembly, building materials, and banking. The people enjoy a very high standard of living. Education is free upto the secondary level and heavily subsidised with scholarships at higher levels. The population is 83% urban. Every fourth resident of Bahrain is an Indian.

Petroleum production and refining account for about 60% of export receipts, 60% of government revenues, and 30% of GDP. A large number of exports consist of petroleum products made from refining imported crude.

This archipelago manages some 85\$ billion in offshore banking assets. Financial institutions are attracted by a skilled work force, good communications and a regulatory system considered the most effective in the region. The country long ago branched into industries such as aluminium refining, ship repair and petro chemicals. It also does a tidy business as a tourist destination for Saudis.

Consulate: 5th Floor, Maker Tower, F Cuff Parade Road, Colaba, Mumbai-400005. Tel: 2185856; Fax: 2188817

Indian Mission in Bahrain: Embassy of India, Building 182, Road 2608, Area 326, Ghudaibiya, P.O. Box No.26106, Adliya, Baharain. Tel:00-973-712683,712832,712785; Fax:00-973-715527.

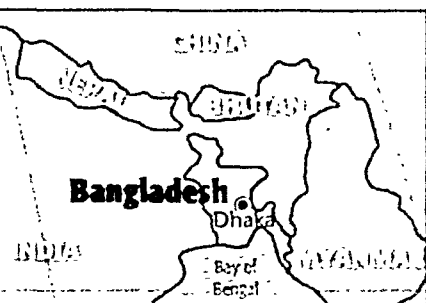
E-mail: indiacon@batelco.com.bh

Website: <http://www.indianembassy-bh.com>

14. Bangladesh

(People's Republic of Bangladesh; Gana Prajatan Bangladesh)

Capital: Dhaka; **Other Large Cities:** Chittagong, Khulna; **Area:** 148,393 sq.km; **Population:** 147,365,352; **Languages:** Bangla, Chakma, Magh; **Religions:** Islam-83%, Hindu-16%, others-1%; **Literacy:** 43.1%; **Life Expect-**



ancy: 62.46; Currency: Taka (US \$1=69.48);
p.c.i.: \$2,100; Date of Independence: 16th De-
cember, 1971.

Government Type: Parliamentary Demo-
cracy; **President:** Iajuddin Ahmed; **PM:** Begum
Khaleda Zia.

History: Bangladesh is surrounded by India,
Myanmar and the Bay of Bengal.

A republic in south Asia, Bangladesh was
formerly East Pakistan, one of the five prov-
inces into which Pakistan was divided at its
creation, when Britain's former Indian Empire
was partitioned in August 1947. East Pakistan
and the four western provinces were separated
by about 1,600 km of Indian territory. East
Pakistan was formed from the former Indian
province of East Bengal and the Sylhet district
of Assam. Although the East was more popu-
lous, government was based in West Pakistan.
From the very inception of its formation, lan-
guage remained the most problematic issue.
Same status for Bengali language with Urdu
and English was the demand and the move-
ment involving all sections of the people of
East Pakistan gave a strike call on 21 Feb, 1952.
On that very day, police fired on a students'
rally and several students died. Since then the
day has been observed as the Language Day
(Bhasa Divas).

East Pakistan became an independent en-
tity named Bangladesh on 16 December,
1971, following civil war in which India ac-
tively supported the East. Leader of this inde-
pendence movement, Sheikh Mujibur Rahman
became the first Prime Minister.

In January 1975 parliamentary government
was replaced by a presidential form of gov-
ernment. Sheikh Mujib became President, as-
suming absolute power. In February,
Bangladesh became a one-party state.

On 15 August, 1975 Sheikh Mujib and his
family were assassinated in a coup. Chief of
Army Staff, Major-Gen. Ziaur Rahman (Gen.
Zia) took over power on 7 November, 1975.
In June 1978 the country's first direct presi-
dential election resulted in a victory for Zia,
who formed a Council of Advisers. Parliamen-
tary elections followed in February 1979 in
which President Ziaur Rahman's Bangladesh
Nationalist Party (BNP) won 207 of the 300
directly elective seats in the Jatiya Sangsad.

Political instability recurred, however, when
Gen. Ziaur was assassinated on 30 May 1981
during an attempted military coup. The eld-
erly Vice-President, Justice Abdus Sattar, took
over as acting President but was faced with
strikes and demonstrations over the execution
of several officers who had been involved in
the coup.

On 24 March, 1982 there was a bloodless
military coup, by which Lieut. Gen. Ershad be-
came chief martial law administrator. President
Sattar was deposed. The Constitution was sus-
pended and parliament ceased to function.
Assanuddin Chowdhury was sworn in as civil-
ian president on 27 March. Lieut. Gen. Ershad
assumed the presidency on 11 Dec., 1983

Although the Government's economic poli-
cies achieved some success and gained a mea-
sure of popular support for Ershad, the all party
alliance of MRD—Movement for the Restora-
tion of Democracy—gained momentum.

In Jan. 1986 a National Executive Commit-
tee was formed and the National Party
launched, composed of government support-
ers. Gen. Ershad was re-elected President on
15 October, 1986. The National Party won
the general election of March 1988.

Gen. Ershad was deposed and arrested af-
ter a popular uprising in December 1990.

Shahabuddin Ahmed took over as Acting President. In the general elections held in February 1991 Bangladesh National Party led by Begum Khaleda Zia won 140 seats. Begum Zia was sworn in PM. In the general elections held in June, 1996, Awami League won 146 seats and Sheikh Hasina Wazed, daughter of the late Sheikh Mujibur Rahman, became the PM of Bangladesh. Jatiya Party quit the govt. in Mar. '98.

Tribal Shanti Bahini guerrillas fighting for autonomy in the Chittagong Hill Tracts surrendered in Feb. '98, ending a 25-year insurgency that claimed more than 8500 lives.

Bangladesh is the second largest Muslim country in the world. Dhaka, with 2000 mosques, is known as the city of mosques. The total for the country is over 200,000. There are an estimated 1,200,000 tribal people in Bangladesh. Most of them (700,000) are in Chittagong Hill Tracts (CHT).

Economy: Although half of Bangladesh's GDP is generated through the service sector, nearly two-thirds of the people are employed in the agriculture sector, with rice as the single-most-important product. Plots of land are very small-measured in tenths of a hectare. Half the population still cannot afford to feed themselves properly. At independence in 1971, the US Secretary of State dismissed the new country as an 'international basket-case'.

Recent Events: In February, 2006, opposition Awami League ended year-long parliamentary boycott.

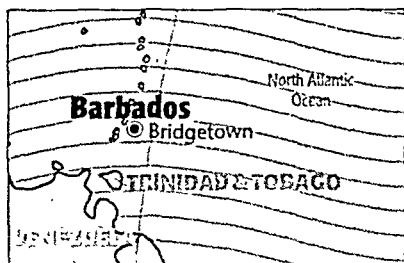
Mission in India: High Commission for the People's Republic of Bangladesh, EP-39, Dr.S.Radhakrishnan Marg, Chankyapuri, New Delhi - 1107021. Tel: 26878948-49; Fax: 26878953.

E-mail: dhcdelhi@mantraonline.com

Indian Mission in Bangladesh: High Commission of India. House No. 2, Road No.142, Gulshan-1, Dhaka, Bangladesh. Tel: 00-8802-9889339. E-mail: hc@hcidhakha.org

15. Barbados

Capital: Bridgetown; Area: 430 sq km; Popu-



lation: 279,912; Languages: English; Religions: Protestant-67% (Anglican 40%, Pentecostal-8%, Methodist-7%, others-12%), Roman Catholic-4%, none-17%, others-12%; Literacy: 99.7%; Life Expectancy: 72.79; Currency: Barbados Dollar (BD) (\$1 = 2.00); p.c.i.: \$ 17,000 ; Date of Independence: 30th November, 1966.

Government Type: Parliamentary Democracy; **Head of State:** Queen Elizabeth II; **Governor-General:** Sir Clifford Husbands; **PM:** Owen Arthur.

History: The island of Barbados is the most easterly of the Caribbean islands, lying about 400 km north east of the mainland of South America. It is included in the Windward Isles. British settlers arrived in 1627. Slavery existed until 1834. Barbados became fully self-governing within the Commonwealth on Nov. 30, 1966. In 1997, a commission was appointed to consider abandoning all ties to Britain.

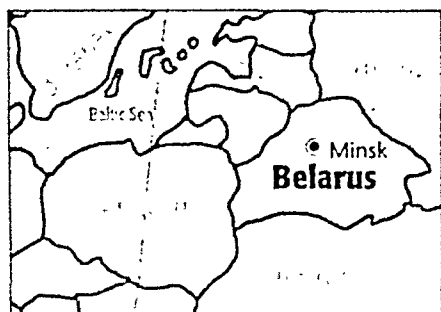
Economy: Agriculture and tourism dominate the economy of Barbados. Sugar, molasses, rum, electrical components and chemicals are major exports.

The island's economy has become diversified, thus reducing the importance of sugar. Services, especially tourism, are now the main source of employment. Industry: Light manufacturing, electronic component, sugar, food processing, beverages, rum, beer. Barbados'

Wildlife Reserve is home to two species of animals unique to the island—the green monkey and the large red-footed tortoise.

16. Belarus

(Republic of Belarus) Republika Belarus



Capital: Minsk; **Other Large Cities:** Gomel, Vitebsk; **Area:** 207,600 sq.km.; **Population:** 10,293,011; **Languages:** Belorussian, Russian; **Religions:** Eastern Orthodox-80%, others (Including Roman Catholic, Protestant, Jewish and Muslim)-20%; **Literacy:** 99.6%; **Life Expectancy:** 69.08; **Currency:** Rouble (\$1=2,144.0) p.c.i: \$ 6,900; **Date of Independence:** 25th August, 1991.

Government Type: Republic; **Head of State:** Aleksandr Lukashenko; **PM:** Sergei Sidorsky.

History: After seven decades as a constituent republic of the USSR, Belarus attained its independence in 1991. It has retained closer political and economic ties to Russia than any of the other former soviet republics. Russians form 13.2% of the population, Poles 4.1% and Ukrainians 2.9%.

In April, 1997, Belarus and Russia concluded a union treaty calling for the gradual creation of a confederation between the two Slavic nations.

Economy: Agriculture: Cattle-breeding for meat and dairy produce. **Important Products:** Potato, hemp, grain, flax, fodder. **Natural resources:** Valuable forest land wooded with oak, elm, maple; peat deposits. **Industry:**

motor vehicle, machine tools, agricultural machinery, peat, chemical fibre, paper, building materials, food processing, textile.

Mission in India: Embassy of the Republic of Belarus, 163, Jor Bagh, New Delhi-110 003. Tel: 24694518, 4697025; Fax:24697029.

E-mail: india@belembassy.org

Indian Mission in Belarus: Embassy of India, Ulitsa Koltsova 4, Block No.5, Minsk 220090, Belarus. Tel: 00-375-17-2629399, 267739; Fax:00-375-17-2629799.

E-mail: amb@open.by/indembminsk
@indiatimes.com (Ambassador's Office)

17. Belgium

Kingdom of Belgium, Koninkrijk Bekgie (Dutch), Royaume de Belgique (French)



Capital: Brussels **Other Large Cities :** Antwerp, Ghent, **Area:** 30,521 sq.km; **Population:** 10,379,067. **Languages:** Flemish, French and German—all official; **Religions:** Roman Catholic-75%, Protestant and others-25%; **Literacy:** 99%; **Life Expectancy:** 78.77. **Currency:** Euro (\$1=0.7912); p.c.i: \$ 31,400 **Date of Independence:** 4th October, 1830

Government Type: Federal Parliamentary Democracy; **Head of State:** King Albert II; **PM:** Guy Verhofstadt

History: Belgium (in NW Europe) has been named after the Belgae, people of Gaul who crossed the Rhine about 6th century B.C. has had a turbulent history and became an independent

During both the World Wars it was occupied by Germany but freed itself by the end of those wars. Belgium became a Federal State in February, 1993.

Economy: Although Belgium is essentially a manufacturing country, agriculture and forestry are also very important. Industry is concentrated mainly in the populous Flemish area in the north. The main crops are oats, rye, wheat, potatoes, barley and sugar beets. Coal is the country's only important mineral. Principal industries: steel and metal products, textiles, glass, fertiliser, sugar, heavy chemicals, etc. About 50% of the country's total production is exported. Roughly three-quarters of its trade is with other EU countries. Public debt is nearly 100% of GDP. Antwerp is the world's 4th largest port and also the world's biggest diamond-trading centre.

Language difference has been a source of unpleasantness. Transferring power from the central govt. to three regions—Wallonia, Flanders and Brussels—has been taken up by parliament.

The European Community has its headquarters in Brussels. There are international airports at Brussels and Antwerp.

Recent Events: Euthanasia and gay marriage have been legalized.

Mission in India: Royal Embassy of Belgium, 50-N, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 26889851; Telefax: 26885821.

E-mail: ambabel@del2.vsnl.net.in

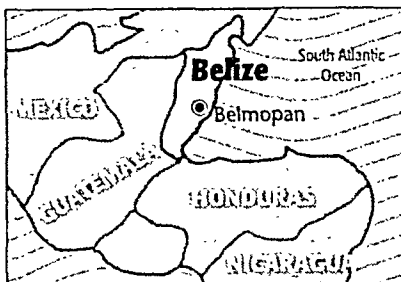
Consulate General of Belgium in Mumbai: Morena 11, M.L. Dahanukar Marg (Carmichael Road, Mumbai-400 026; Ph: +91 22 23515186, 23521602

Indian Mission in Belgium: Embassy of India, 217-Chaussee de Vleurgat, 1050, Brussels, Belgium. Tel: 00-32-2-6409928, 6409140; Fax: 00-32-2-6489638.

E-mail: infogen@missionindia-belgium.org
Web: www.missionindia-belgium.org

18. Belize

Capital: Belmopan; **Other Large Cities:** Belize City, Orange Walk; **Area:** 22,965 sq .km;



Population: 287,730; **Languages:** English, Spanish, Creole dialects; **Religions:** Roman Catholic-49.6%, Protestant-27%, None-9.4%, others-14%; **Literacy:** 94.1%; **Life Expectancy:** 68.3; **Currency:** Belize Dollar (\$1= 1.977); **p.c.i:** \$ 6,800; **Date of Independence:** 21st September, 1981.

Government Type: Parliamentary Democracy; **Governor-General:** Colville Young; **PM:** Said Musa.

History: Belize, formerly known as British Honduras, is a Central American republic with the Caribbean Sea to the east. Originally a British colony, it was granted autonomy in 1964 and became independent in 1981. The name Belize was adopted in 1973. The original capital Belize City was laid waste by a hurricane in 1961. The capital was shifted to Belmopan, an inland town, in 1970.

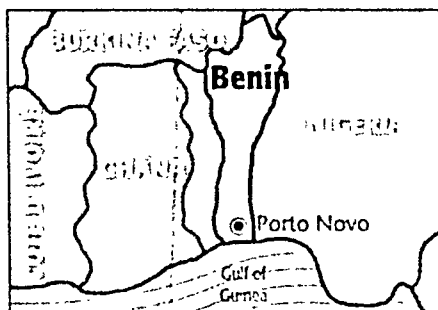
More than half the population is made up of the so-called Creoles or English-speaking Negroes, found mostly in the coastal regions. The indigenous (Red) Indian population consists of Mayans and Kekchis who live mostly in the reserves.

Economy: Forest products, especially timber, form a major export item. Sugar, citrus fruits, corn and bananas form the major products. Maize, rice, kidney beans and sweet potatoes are the main domestic staples. In-

dustries: Sugar, molasses, cigarettes, beer, garments, tourism. Wild life includes the curious creature manatee – an amphibian mammal – and several varieties of reptiles.

19. Benin

Republic of Benin, Republique du Benin



Capital: Porto Novo; **Other Large Cities:** Cotonou, Parakou; **Area:** 112,622 sq.km.; **Population:** 7,862,944; **Languages:** French and Tribal dialects like Fon, Yoruba; **Religions:** Indigenous beliefs-50%, Christian-30%, Muslim-20%; **Literacy:** 33.6%; **Life Expectancy:** 53.04; **Currency:** CFA Franc (\$1 = 518.98); **p.c.i.:** \$ 1,100; **Date of Independence:** 1st August, 1960.

Government Type: Republic under multi-party democratic rule; **Head of State & Govt (President):** Yayi Boni.

History: The People's Republic of Benin (formerly Dahomey) is located north of the Gulf of Guinea in West Africa. It is one of the smallest and most densely populated states in Africa.

Formerly one of the provinces of French West Africa, Benin became an independent state on Aug. 1, 1960. The country has been plagued by coups and counter-coups. For some years Marxism-Leninism was the state ideology.

The first free presidential elections in 30 years were held in 1991. President Parakou was re-elected in March, 2001.

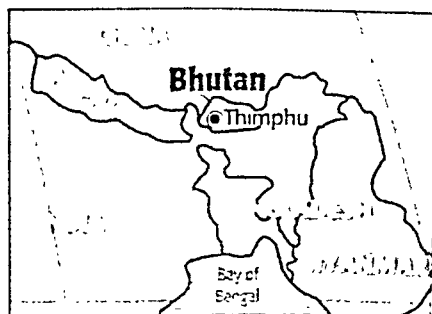
Economy: Products: palm oil, kernels, peanuts, cotton, coffee and tobacco. Food crops: Cassava, yams, maize, sorghum. Industry: Few factories. Palm oil-processing, brewing, sugar.

Mission in India: Embassy of Benin stationed at Beijing.

Honorary Consulate General, C-4, Sector-7, Noida, UP; **Tel:** 95120-24423373, 24423257; **E-mail:** sundert@ndf.vsnl.net.in

20. Bhutan

(Kingdom of Bhutan) Druk-Yul



Capital: Thimphu **Area:** 46,500 sq.km; **Population:** 2,279,723, **Languages:** Dzongkha, Chotsam (Nepali), English, Gurung, Assamese **Religions:** Buddhist-75%, Hindu & Nepalese-25%, **Literacy:** 47%; **Life Expectancy:** 54.78 **Currency:** Ngultrum, fixed at par with the Indian Rupee which is also legal tender (\$1 = 45.84); **p.c.i.:** \$1,400; **Date of Independence:** 8th August, 1949.

Government Type: Monarchy; **Head of State:** King Jigme Singye Wangchuk; **Head of Govt:** Jangay Yige dup.

History: The Kingdom of Bhutan, the land of the 'Thunder dragon' lies in the Himalayas, bordered north by China and all other sides by India. It has jagged mountains, fertile valleys and thick forest.

The first hereditary King of Bhutan died in 1705. The 11th Dec 1967, India-Bhutan Treaty signed in 1973.

sign relations under the supervision of the Government of British India. After India became independent, that treaty was replaced in Aug. 1949 by the Indo-Bhutan Treaty of Friendship, whereby Bhutan agrees to seek the advice of the Government of India with regard to its foreign relations, but remains free to decide whether or not to accept such advice.

King Jigme Dorji Wangchuk was succeeded in 1972 by the Western-educated 16-year-old Crown Prince, Jigme Singye Wangchuk. The new King stated his wish to maintain the Indo-Bhutan Treaty and to strengthen friendship with India.

Bhutan joined the UN in 1971 and the Non-Aligned Movement in 1973. In 1983 Bhutan became a founder-member of the South Asian Association for Regional Co-operation (SAARC).

Bhutan is a monarchy, without a written constitution. In 1907 the Tongsa Penlop (the governor of the province of Tongsa in central Bhutan), Sir Ugyen Wangchuk, was elected the first hereditary Maharaja of Bhutan. The Bhutanese title is Druk Gyalpo and his successor is now addressed as King of Bhutan. From Oct. 1969 the absolute monarchy was changed to a form of democratic monarchy. The National Assembly (Tshogdu) was re-instituted in 1953. All Bhutanese over 25 years may be candidates. Ten monastic representatives are elected by the central and regional ecclesiastical bodies, while the remaining members are nominated by the King, and include members of the Council of Ministers (the Cabinet) and the Royal Advisory Council. The Royal Advisory Council (Lodol Tsokde), established in 1965, comprises 10 members. Council of Ministers is known as Lhengye Shungtsog.

Recent reports indicate that the mountain kingdom is inching towards democracy. A political transformation is under way, its main force being the reformist monarch Jigme

510-member National Assembly in June '98 said a two-thirds majority in the House could force the king to abdicate. The Assembly (its term: 5 years) will also throw up the Council of Ministers, one of whom will remain as chairman for a year. A draft constitution was released in Dec. 2002.

Economy: There are 20 districts. A Nepalese minority makes up 30-35% of the population. Bhutan, by world standards is one of the poorest countries. Its economy is largely a subsistence economy. People are engaged in subsistence farming; and barter is practised. The transition to market economy has changed social life. Life expectancy: 49 years. Urban population is 7%. Large deposits of limestone, marble, dolomite, graphite, lead, copper, slate, coal, talc, gypsum, beryl, mica, pyrites and tufa have been found.

Chief crops: Rice, millet, wheat, barley, maize, cardamom, potatoes, oranges, apples. Extensive and valuable forests abound. Livestock includes cattle, yaks, pigs, sheep and goats, and poultry. Industry: Food industry, cement, etc. Trade with India dominates.

Free education is available, but there are insufficient facilities to accommodate all school age children. Many students receive higher technical training in India.

All Bhutanese nationals are obliged to wear the national costume. Under law, Bhutanese women are treated as equal to men.

Though Bhutan for long resisted the lure of tourism, it is the principal source of foreign exchange now. The Kingdom was opened to tourism in the autumn of 1974.

Recent Events: In Dec. 2004, Bhutan became the first nation in the world to ban the sale of tobacco and smoking in public. King Wangchuk released a draft of a new constitution in March 2005 which outlines plans for the country to shift from an absolute monarchy to a two-party democracy.

Mission in India: Royal Bhutanese Embassy.

Delhi-1107021. Tel: 26889807, 26889809, 26889230; Fax: 26876710, 24674664.

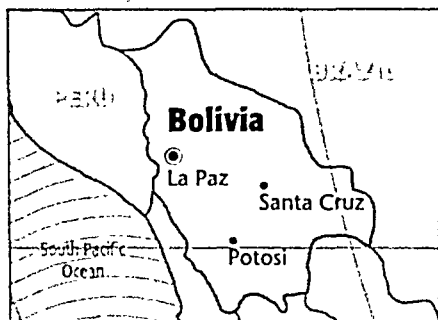
E-mail: bhutan@vsnl.com

Indian Mission in Bhutan: Embassy of India, India House Estate, Thimphu, Bhutan. Tel: 00-975-2-322162; Fax: 00-975-2-323195, 325341.

E-mail:rmisra@druknet.net.bt

21. Bolivia

(Republic of Bolivia) Republic de Bolivia



Capital: La Paz (administrative) and Sucre (judicial); **Other Large Cities:** Santa Cruz, Potosi; **Area:** 1,098,581 sq.km; **Population:** 8,989,046; **Languages:** Spanish, Quechua and Aymara; **Religions:** Roman Catholic-95%, Protestant; **Literacy:** 87.2%; **Life Expectancy:** 65.84; **Currency:** The Boliviano (\$1=7.99); **p.c.i:** \$ 2,900; **Date of Independence:** 6th August, 1825.

Government Type: Republic; **Head of State & PM(President):** Juan Evo Morales.

History: Bolivia, a South American state, lies astride the Andes.

Originally part of the ancient Inca Empire, Bolivia became independent in 1825. It has been named after Simon Bolivar, the famous South American fighter for freedom. Bolivia, like most Latin American states, has had a number of coups and counter-coups. It restored civilian rule in 1982 after nearly 20 years of military regimes.

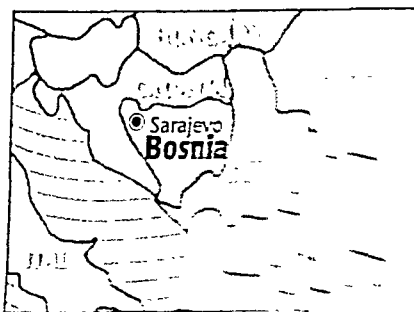
Lake Titicaca on the Peru-Bolivia border is the highest lake in the world.

Economy: Agriculture, the mainstay of the country, engages 70 per cent of the people. Chief crops: Potatoes, sugar, coffee, corn. Tin mining was the most important industry, until 1985 when international tin market collapsed. Zinc, lead, antimony and tungsten are the other important minerals. Mining accounts for about 70% of foreign exchange earnings. Other industries: Textiles, food processing, refined petroleum. A privatisation programme affecting some 60 state-owned enterprises was launched in 1992. On August 5, 2002 Gonzalo Sanchez de Lozada, a millionaire businessman, was again elected to lead the nation for the next five years.

Mission in India: Embassy of Bolivia stationed at New York.

22. Bosnia-Herzegovina

(Republic of Bosnia and Herzegovina; Republika Bosna i Hercegovina)



Capital: Sarajevo

Population: 4,500,000

Government: Federal

Religion: Muslim, Catholic, Orthodox

Language: Bosnian, Croatian, Serbian

Independence: 1992

President: Milorad Dodik

Prime Minister: Vjekoslav Bevanda

Member of: NATO, EU, OSCE

Neighboring Countries: Croatia, Serbia, Montenegro

Member (Croat): Ivo Miro Jovic; Presidency Head of Govt: Adnan Terzic.

Republic of former Yugoslavia, Bosnia-Herzegovina is traditionally known as the powder keg of the Balkans, with its explosive ethnic mix of three groups (Muslim Slav-43%; Serbs-31%; Croats-17%; others-9%.) and its three religions (Muslims-40%, Catholics-15% and Orthodox-31%).

History: The country was settled by Slavs in the 7th century. Bosnia was conquered by Turks in 1463. At the Congress of Berlin (1878), the territory was assigned to Austro-Hungarian administration under nominal Turkish suzerainty. Austria-Hungary's outright annexation in 1908 generated international tensions which contributed to the outbreak of World War I.

Croats and Muslims voted for independence in Oct. 1991. A referendum for independence was passed in Feb, 1992. A 'Serb republic' was formed in the predominantly Serb-populated Bosnian territories. Serbs' opposition to the referendum spurred violent clashes. In April, independence of the republic was recognised by U.S. and E.U. Fierce fighting continued. Serbs massacred thousands of Bosnian civilians. By mid-'94 three-fourths of Bosnia came under Serb control.

Peace talks were held but Serb-Muslim-Croat fighting continued. In '93, negotiations resumed to partition Bosnia. In July an ineffective ceasefire was in force. A peace plan authored by USA, UK, France, Germany and Russia was under consideration. NATO launched a series of massive air raids on Serbian positions and Sarajevo and in Serb-held Bosnian territory in August, '95 after the shelling of Sarajevo market by Serb gunmen.

In Sept., '95, Bosnia's warring sides decided to put an end to the three and a half-year-old war by cutting the nation into two parts: one for the rebel Serbs and the other for Muslims and the Croats. In Oct., a ceasefire was to come into effect but Serbs were reportedly engaged in a new 'ethnic cleansing' operation.

February 96 saw the end of the war and the fragile truce imposed by the Dayton accords was reaffirmed at a summit in Rome. In March, Sarajevo, divided by war for almost four years, was reunited as the last of five Serb areas passed to the Muslim-Croat federation. In July, UN war crimes tribunal issued arrest warrants for Bosnian Serbs' political leader Radovan Karadzic, who later agreed to step down. In Sept., elections were held for a 3 person collective presidency and for seats in a federal parliament.

In Mar. 98, US and its NATO allies decided to keep the international peace-keeping force in Bosnia (31,000 troops) through end of 1998. The Dayton peace agreement failed in knitting the three communities into a single state.

Economy: Agricultural products: Wheat, maize, potatoes, plums, timber, cattle, sheep. Industry: Textiles, timber, rugs, cement, electricity, coal, steel. The war has destroyed 95% of industrial capacity.

Recent Events: In January 2006, Christian Schwarz-Schilling took over from Paddy Ashdown as UN High Representative. In February, International Court of Justice in The Hague began hearings in genocide case brought by Bosnia-Herzegovina against Serbia and Montenegro. In July, largest war crime trial to date over the 1995 Srebrenica massacre opened at the UN tribunal in the Hague.

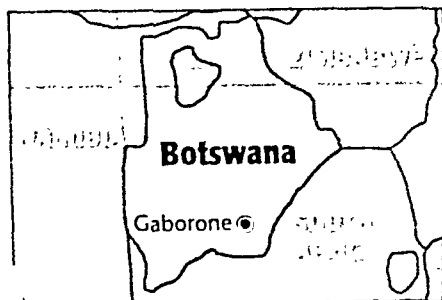
Mission in India: Embassy of Bosnia & Herzegovina, C-7/9, Vasant Vihar, New Delhi 110 057. Tel: 26147415, 26147416, Fax: 26143042.

E-mail: bos_her@starith.net

23. Botswana

(Republic of Botswana)

Capital: Gaborone; **Other Large Cities:** Francistown, Lobatse; **Area:** 581,730 sq. km. **Population:** 1,639,833; **Languages:** English, Setswana and Sishona; **Religions:** Christian



1.6%, Badimo-6%, other-1.4%, unspecified-0.4%, none-20.6%; Literacy: 79.8%; Life Expectancy: 33.74; Currency: Pula (\$1=5.86); p.c.i: \$ 10,500 ; Date of Independence: 30th September, 1966.

Government Type: Parliamentary Republic; **Head of State & Govt (President):** Festus Mogae.

History: The Republic of Botswana – the land of the Batawana tribes – (formerly known as Bechuanaland) is located in Southern Africa. Most of the country is near-desert, with the Kalahari occupying the western part of the country. Botswana became independent in Sept. 1966 and assumed its present name.

Rural population is 80% and population growth rate 3.5%. The country is divided into 10 districts.

Economy: Cattle industry is the most important economic activity. Important crops: Sorghum, corn, millet, beans. Beef is the main export. Diamonds, manganese, asbestos, coal, copper and nickel are leading mineral resources. The economy is closely tied to that of South Africa. Botswana's per capita income grew 9.2% between 1965 and 1996. But in 2001, the country had the highest rate of HIV infection in the world.

Mission in India: Embassy of Botswana stationed at Tokyo.

Indian Mission in Botswana: High Commission of India, Plot 5375, President's Drive, Private Bag 249, Gaborone, Botswana. Tel: 00-267-372676; Fax: 00-267-374535

E-mail: hicomind@info.bw

24. Brazil

(Federative Republic of Brazil) - Republica Federativa do Brasil



Capital: Brasilia; **Other Large Cities :** Sao Paulo, Rio de Janeiro, Belo Horizonte, Recife, Salvador; **Area:** 8,511,965 sq.km; **Population:** 188,078,227; **Languages:** Portuguese (official), Spanish, English, French; **Religions:** Roman Catholic (nominal)-73.6%, Protestant-15.4%, Spiritualist-1.3%, Bantoo/Voodoo-0.3%, other-1.8%, unspecified-0.2%, none-7.4%; **Literacy:** 86.4%; **Life Expectancy:** 71.97; **Currency:** Real (\$ 1= 2.25); p.c.i: \$ 8,400; **Date of Independence:** 7th September, 1822.

Government Type: Federative Republic; **President:** Luiz Inacio Lula da Silva.

History: Brazil, the largest South American state, lies more or less in the centre of South America. It borders every nation on the continent except Chile and Ecuador. It is a land of dense forests and mighty rivers. The Amazon and the Sao Francisco cover the country.

Brazil was a Portuguese settlement and declared a kingdom in 1888. The country's exploitable wealth early centuries found in the wood that produced red dye, pau-brasil, from which it took its name. Monarchy was replaced by a republic and a republic declared in 1964 but restored in 1985.

Until the 1970s Brazil was an almost entirely Catholic country. But a 1998 unofficial survey found that one in six Brazilians now profess loyalty to mainly protestant evangelical churches.

About 75% of Brazil's population now live in the cities. Brasilia, a showpiece of modern architecture and town planning, was declared the capital on April 21, 1960.

Economy: In many respects, Brazil is an advanced industrial economy. Around one-quarter of the labour force works in industry. Brazil's industry has benefited from its wealth of mineral resources. The major exports of Brazil are soyabeans, sugar, coffee, iron ore, cocoa beans, maize, sisal and tobacco. (world's largest exporter of flue-cured tobacco). Agriculture accounts for 9% of GDP. The contribution of industry and services to GDP is 32% and 59% respectively.

Brazil is one of the world's top eight producers of agricultural commodities. The number one coffee producer for more than a century, Brazil also leads in oranges, orange juice concentrate, alcohol, sisal, cassava and bananas. It has the planet's largest commercial cattle herd, and comes only to the United States in soya production and to India in sugar cane output.

Brazil possesses vast deposits of mineral wealth—chrome ore, iron, phosphates, uranium, manganese, copper, coal, platinum and gold. Oil is a state monopoly. The wax which is used for phonograph records and insulation is a monopoly product of the state. Brazil is the only source of high grade quartz crystal in commercial quantities.

In August, 1992, Brazil's foreign debt of \$ 123 billion was the developing world's highest, its inflation rate was close to 250%, the highest in Latin America. Currency devaluation and crisis added to instability in 1999. Lula da Silva was inaugurated 36th President of Brazil on Jan.1, 2003-Brazil's first working-class President.

Recent Events: In May, 2006, scores of people were killed in gang attacks and a police backlash in Sao Paulo state. The violence was sparked by a series of prison uprisings.

Mission in India: Embassy of Brazil, 8, Aurangzeb Road, New Delhi-110011. Tel: 23017301; Fax:23793684;

E-mail: brasindi@vsnl.com

Consulate: Mumbai:Tel:22002236/2256/7511/1796, Fax:22009456

E-mail: brazilcons@rediffmail.com

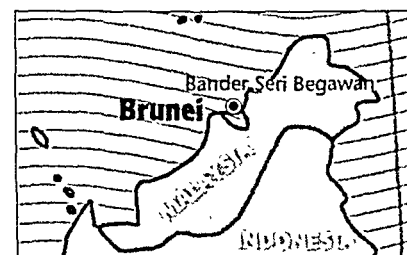
Indian Mission in Brazil: Embassy of India, SHIS-QL-08, Conj. 08 Casa 01 Lago Sul, CEP-71620-285, Brasilia DF, Brasil, Tel: 00-55-61-248-4006 (4 lines) Fax: 00-55-61-2485486/7849.

E-mail:indemb@indianembassy.org.br

Web: www.indianembassy.org.br

25. Brunei

(Brunei Darussalam) State of Brunei Darussalam Negara Brunei Darussalam



Capital: Bander Seri Begawan (formerly called Brunei Town); **Area:** 5,765 sq.km; **Population:** 379,444; **Languages:** Malay, English, Chinese; **Religions:** Muslim-67%, Buddhist-13%, Christian-10%, Indigenous beliefs and others-10%; **Literacy:** 93.9%; **Life Expectancy:** 75.01; **Currency:** Brunei Dollar (\$1=1.69); **p.c.i:** \$ 23,600; **Date of Independence:** 1st January, 1984.

Government Type: Constitutional sultanate; Sultan and PM: Haji Hassanal Bolkiah.

History: Negara Brunei Darussalam on the

northern side of the island of Borneo lies between two Malaysian territories, Sabah and Sarawak. Brunei Malays, mostly Muslims, form more than half of the population. The Sultanate, once a powerful and independent kingdom, was annexed by Britain and was granted full internal autonomy in 1971. Became a fully sovereign and independent state on Jan. 1, 1984.

Economy: Oil and natural gas are Brunei's most valuable resources. Much of Brunei's oil comes from the offshore Ampa field. Over 40% of GDP is derived from oil and gas exports. Rice is the chief food crop. Also grown are bananas, vegetables, cassava and pepper. Other crops are coconuts, sago, cork and rubber. Rubber is an export item. The Sultan of Brunei is one of the world's richest men. The Sultan's son Prince-al-Muhtadee Billah is the heir to Brunei's throne.

Recent Events: • Prince Billah married a commoner in September 2004.

Mission in India: Brunei Darussalam High Commission, A-4, Poorvi Marg, Vasant Vihar, New Delhi-1107057. Tel: 26148340, 26148343; Fax: 2614 2101.

E-mail: suhtindb@del3.vsnl.net.in

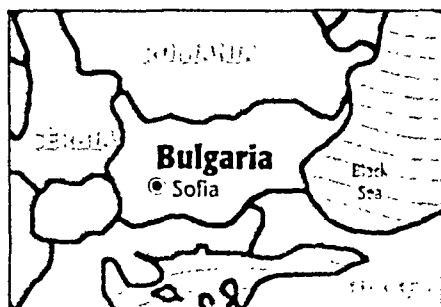
Indian Mission in Brunei: High Commission of India, 'Baitussyifaa', Simpang 40-22, Jalan Sungai Akar, Bandar Seri Begawan BC 3915, Brunei Darussalam. Tel: 00-673-2-339947; Fax: 00-673-2-339783.

E-mail: hicom ind@brunet.bn

Web: brunet.bn/gov/emb/india

26. Bulgaria

(Republic of Bulgaria) - Republika Bulgaria
Capital: Sofia; **Other Large Cities:** Plovdiv, Dobrich; **Area:** 110,912 sq km; **Population:** 7,385,367; **Languages:** Bulgarian, Turkish; **Religions:** Bulgarian Orthodox-82.6%, Muslim-12.2%, others-5.2%; **Literacy:** 98.6%; **Life Expectancy:** 72.3; **Cur-**



rency: Lev (\$1=1.54); p.c.i: \$ 9,600; **Date of Independence:** 3rd March, 1878.

Government Type: Parliamentary Democracy; **President:** Georgi Purvanov; **PM:** Sergei Stanishev.

History: Situated on the Black Sea in eastern Balkan Peninsula, Bulgaria was founded in 681. Monarchy was abolished and a people's republic was proclaimed in 1946. The country's first free election after four decades of communist rule was held in 1990, and an 11-member Corporate Presidency was elected to power. In Oct. 1991, a non-communist government was elected. In Apr. '97 Bulgaria's reformist Union of Democratic Forces scored a resounding victory in parliamentary elections. The country became a member of NATO in 2003.

Economy: Principal products: Grains, tobacco, fruits, vegetables. Minerals: Coal, iron ore, copper, lead and zinc. Industry: Crude steel, pig iron, cement, chemicals, textiles, processed food.

Mission in India: Embassy of the Republic of Bulgaria, EP 16/17, Chandragupta Marg, Chana-kyapuri, New Delhi - 1107021. Tel: 26115549, 26115551, 24108048; Fax: 26876190.

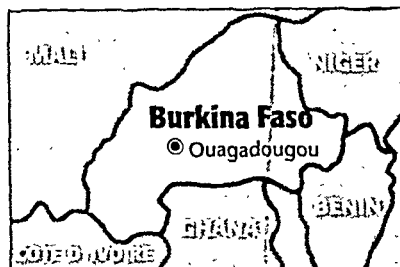
E-mail: bulemb@mantraonline.com

Website: www.bulgariaembindia.com

Indian Mission in Bulgaria: Embassy of India, 31, Patriarch Evtimii Blvd., Sofia, Bulgaria. Tel: 00-359-2-9867 359-2-9801289, 9814124.

E-mail: india@inet.bg

27. Burkina Faso



Capital: Ouagadougou; **Other Large Cities:** Koudougou, Banfora; **Area:** 274,200 sq km; **Population:** 13,902,972; **Languages:** French and Sudanic tribal languages; **Religions:** Tribal beliefs-40%, Muslim-50%, Christian-10%; **Literacy:** 26.6%; **Life Expectancy:** 48.85; **Currency:** CFA Franc (\$1=518.98); **p.c.i:** \$1,300; **Date of Independence:** 5th August, 1960.

Government Type: Parliamentary Republic; **Head of State:** Blaise Compaore.

History: The Republic of Burkina Faso in West Africa is a landlocked state surrounded by Mali, Niger, Benin, Togo, Ghana and Cote D' Ivoire.

Formerly a province of French West Africa called Upper Volta, the country gained full independence in 1960. Name changed to Burkina Faso in 1984.

Economy: It is almost exclusively an agricultural country with 80 per cent of the population dependent on agriculture. Livestock raising is highly developed. Principal crops are sorghum, millet, yams, cotton, rice, peanuts and karite. Industry is limited to local handicrafts and processed agricultural products. The country is heavily dependent on foreign aid. Some 2 million of its citizens live in nearby countries, most of them in Cote D' Ivoire and Ghana. Life expectancy: male 45, female 47.

Mission in India: Embassy of Burkina Faso G-5, Anand Niketan, New Delhi-110 021. Tel: 224671678, 24671630; Fax: 24671746.

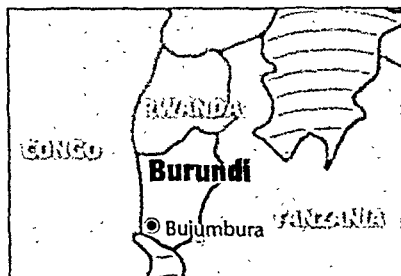
E-mail: emburnd@bol.net.in

Consulate: Mumbai: Tel: 23643093, Fax: 23645796.

E-mail: bhojwani@pn2.vsnl.net.in

28. Burundi

(Republic of Burundi)-Republikay' Ubu-rundi



Capital: Bujumbura; **Other Large Cities :** Kitega; **Area:** 27,834 sq.km; **Population:** 8,090,068; **Languages:** French and Kirundi; **Religions:** Christian-67%, indigenous beliefs-23%, Muslim-10%, Protestant-5%; **Literacy:** 51.6%; **Life Expectancy:** 50.81; **Currency:** Burundi Franc (\$1=980.00); **p.c.i:** \$ 700 ; **Date of Independence:** 1st July, 1962.

Government Type: Republic; **President:** Pierre Nkurunziza.

History: The Republic of Burundi is a small state in east central Africa. Burundi attained independence on July 1, 1962. Prior to independence, it formed part of the Belgian-administered UN Trust Territory of Rwanda-Urundi.

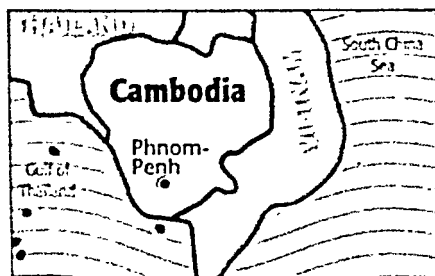
The population consists of Hutu or Bahutu tribesmen (85%), Tutsi or Watutsi people and Twa or Batwa pygmies. One of Africa's poorest and most densely populated states, and scene of one of the continent's worst tribal wars. An unsuccessful Hutu rebellion in 1972-73 left 10,000 Tutsi and 150,000 Hutu dead. In the 1980s, a Tutsi-dominated regime pledged itself to ethnic reconciliation.

in June, 1993, a Hutu was elected. President Cyprien Ntarya-mira, along with Rwandan counterpart, was assassinated in April, 1994. Amnesty International puts the number killed in ethnic violence at over 100,000. Another 700,000 fled to neighbouring countries. In July, 1996, in a coup by the Tutsi-dominated army, Maj. Pierre Buyoya, the minority Tutsi strongman, seized power from President Sylvestre. Ethnic strife continued. In Apr. 2003, a Hutu president D. Ndayizeye assumed power fighting continues.

Economy: Burundi is a landlocked, resource-poor country with an underdeveloped manufacturing sector. The economy is predominantly agricultural with 90% of the population dependent on subsistence agriculture. Economic growth depends on coffee and tea exports, which account for 90% of foreign exchange earnings.

29. Cambodia

(Kingdom of Cambodia) Preah Reach Ana Pak Kampuchea



Capital: Phnom-Penh; **Other Large Cities:** Battambang, Kampong Chan; **Area:** 181,035 sq km; **Population:** 13,881,427; **Languages:** Khmer, French; **Religions:** Theravada Buddhist-95%, others-5%; **Literacy:** 73.6%; **Life Expectancy:** 59.29; **Currency:** Riel (\$1=4055.00); **p.c.i:** \$ 2,200; **Date of Independence:** 9th November, 1953.

Government Type: Constitutional Mon-

archy; **Head of State:** King Norodom Sihamoni; **PM:** Hun Sen.

History: Situated on the Indo-China Peninsula in south-east Asia, the People's Republic of Kampuchea changed its name to the original one Cambodia in May, 1989. For some time-between Oct. 1970 and May 1975 – the country was also known as Khmer Republic.

In May, 1993, the country held multi-party elections. An interim government, was set up by three parties, ending the 14-year reign of the Vietnamese-installed administration. In Sept., 1993, a new constitution was signed, restoring Prince Sihanouk as King of Cambodia. Khmer Rouge was outlawed in July, 1994. They in turn, formed a provisional government.

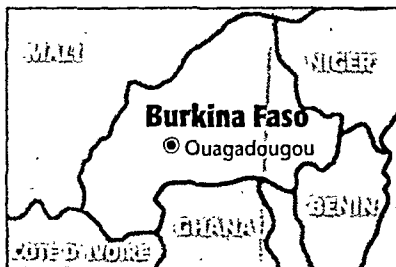
In July 1997, second PM Hun Sen took control of Phnom Penh and became the supreme leader of the country. His rival, first PM Norodom Ranariddh, fled the country. The royalist Funcinpec party of Ranariddh challenged the new first PM Ung Huot's election. Ranariddh was sentenced in absentia in March to 5 years' R.I. by a military court. On Apr. 15, Pol Pot died. Hun Sen emerged the winner in the election of July, '98

Economy: Cambodia is an under-developed country with 50 per cent of its land covered by virgin forests. Chief crops: Rice (occupies 90 per cent of arable land), maize, beans, black pepper, rubber. Cattle rearing and fishing are fairly well-developed. Tonle Sap is one of the world's richest sources of freshwater fish, and most farmers are fishermen, too. The forests are rich in valuable timber. Minerals: Iron, copper, manganese and gold. Industry: Rice milling, wood and rubber.

Angkor Wat, built from 9th to 12th century, the largest cultural monument in the world, is the major tourist attraction.

Recent Events: In February 2005, opposition leader Sam Rainsy and two

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Mission in India: Embassy of Burkina Faso G-5, Anand Niketan, New Delhi-110 021.

Tel: 224671678, 24671679, 51-24671679

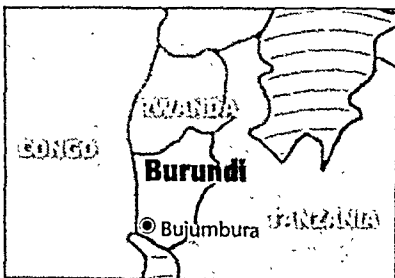
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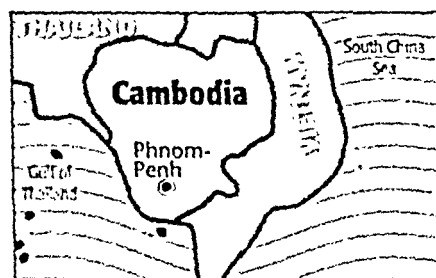
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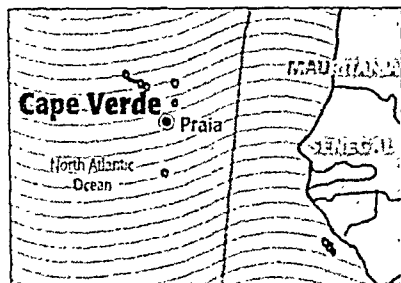
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Angkor Wat, the largest religious monument in the world is the main attraction.

Recent Events: In 1993, the country held multi-party elections.

32. Cape Verde

Republic of Cape Verde/República de Cabo Verde



Capital: Praia; Area: 4033 sq.km; Population: 420,979; Languages: Portuguese, Crioulo; Religions: Roman Catholic (infused with indigenous beliefs), Protestant (mostly Church of the Nazarene); Literacy: 76.6%; Life Expectancy: 70.73; Currency: Escudo (\$1=87.6); p.c.i.: \$ 6,200; Date of Independence: 5th July, 1975.

Government Type: Republic; President: Pedro Pires; PM: Jose Maria Neves.

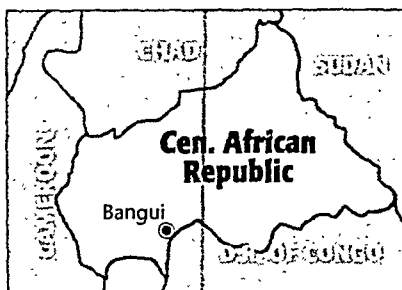
History: Cape Verde is an archipelago of 15 islands in the Atlantic, 600 km west of Dakar, Senegal. Volcanic in origin, the islands are divided into two groups: Barlavento (windward) and Sotavento (leeward). Most Cape Verdeans are descendants of the first Portuguese colonists who came in 1462 and the African slaves brought in soon after. The islands won independence on July 5, 1975.

Economy: Repeated droughts and famines have made Cape Verde poorer. Chief crops are banana, coffee, coconuts, sugarcane, maize, beans. Fishing is important. Minerals: salt.

33. Cen. African Republic

Republique Centrafricaine

Capital: Bangui; Other Large Cities: Bambari, Bouar; Area: 622,984 sq. km; Population: 4,303,356; Languages: French and Sangho;



Religions: Indigenous beliefs-35%, Protestant-25%, Roman Catholic-25%, Muslim-15%; Literacy: 51%; Life Expectancy: 43.54; Currency: CFA Franc (\$ 1=518.98); p.c.i.: \$ 1,100; Date of Independence: 13th August, 1960.

Government Type: Republic; President: Francois Bozize; PM: Elie Dote.

History: The Central African Republic lies in the heart of equatorial Africa. It became self-governing in 1958, and fully independent in 1960, as a member state of the French Community. In 1966 Col. Jean Bedel Bokasa, Chief of Staff of the Army, ousted President David Dacko and seized control of the government.

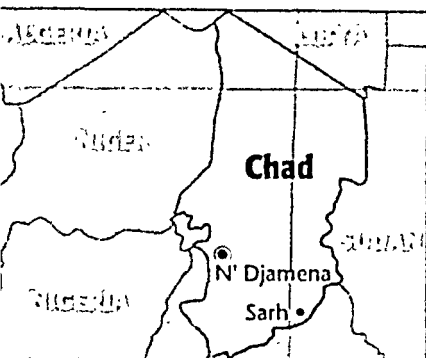
Bokasa was made President for life in 1972. In 1976, he set himself up an emperor, after the Napoleonic pattern. In 1979 a popular uprising drove him out. There was another coup in 1981. A civilian government was installed in 1993.

A government of national unity was formed in June, 1996, after an army mutiny of a month earlier was suppressed with the help of French troops. There was another mutiny in Jan. '97, which ended after French intervention.

Economy: Principal agricultural products are cotton, coffee, groundnuts and tobacco. Cotton leads in exports. Diamonds account for half of the country's export earnings. Uranium mining is becoming increasingly important. Industry: timber, textiles, light manufacturing.

34. Chad

(Republic of Chad) Republique du Tchad



Capital: N'Djamena; Other Large Cities: Sarh, Moundou; ; Area: 1,284,000 sq.km; Population: 9,944,201; Languages: French, Arabic and over 100 tribal languages; Religions: Muslim-51%, Christian-35%, Animist-7%, Others-7%; Literacy: 47.5%; Life Expectancy: 47.52; Currency: CFA Franc (\$ 1=518.98); p.c.l: \$ 1,500; Date of Independence: 11th August, 1960.

Government Type: Republic; President: Idriss Deby; PM: Pascal Yoadimnadji.

History: The Republic of Chad, a landlocked country in North Central Africa, was a province of French Equatorial Africa. The country gets its name from Lake Chad, which lies on the western border with Niger and Nigeria. It became independent on August 11, 1960. Northern Muslim rebels have fought Southern Christian government and French troops since 1966. Idriss Deby took control in 1990.

Economy: The country's economy is entirely rural and based on agriculture and animal husbandry. Cotton and meat are the main exports. Cattle, sheep and camels are raised.

35. Chile

(Republic of Chile) Republica de Chile

Capital: Santiago; Other Large Cities: Valparaiso, Antofagasta; Area: 756,626 sq.



km; Population: 16,134,219; Languages: Spanish; Religions: Roman Catholic-89%, Protestant-11%; Literacy: 96.2%; Life Expectancy: 76.77; Currency: Peso (\$ 1 = 542.75); p.c.l: \$ 11,300; Date of Independence: 18th September, 1810.

Government Type: Republic; Head of State & Govt (President): Michelle Bachelet.

History: The Republic of Chile lies on the western seaboard of South America, occupying the strip of land between Peru and Bolivia in the north to Cape Horn in the south.

Originally a Spanish colony, Chile became independent in 1810. It is the first South American country to elect a Marxist Govt. (under Salvador Allende in 1970) which fell in a military coup in 1973. Human rights violations marked the rule of Augusto Pinochet, removed from office in 1989. Pinochet was arrested in London in Oct. '98, but returned to Chile in March, 2000. Put under house arrest, he was declared to be unfit to stand trial in July 2001.

Economy: Though wheat, other cereals, potatoes, beans etc are cultivated, Chile has to import about one-third of its food. It is one of world's largest producers and a leading exporter of copper. There are significant deposits of nitrate, gold, silver, lithium, molybdenum and iron ore. Oil production provides about half the oil required by the country. Exports, marine products and fruits. Thirty percent of Chile's trade is with Asian countries, 38% with EU, and the rest with the Americas. Industries: Fish, tiles, wood products.

Tierra del Fuego is the largest island in the archipelago of the same name at the southern tip of S. America. Part of the island is in Chile, part in Argentina.

Recent Events: In January, Supreme Court upheld indictment of Gen. Pinochet for nine kidnappings and one homicide during his dictatorship.

Mission in India: Embassy of the Republic of Chile, 146, Jor Bagh, New Delhi-110003; Tel: 24617123, 24617165, 24617270; Telefax: 91-11-24617102.

E-mail: embchile@vsnl.com

Indian Mission in Chile: Embassy of India, 871, Triana, Post Box No. 10433, Santiago, Chile. Tel: 00-56-2-2352005, 2352633; Fax: 00-56-2-2359607.

E-mail: embindia@entelchile.net

36. China

(People's Republic of China) Zhonghua Renmin Gonghe Guo

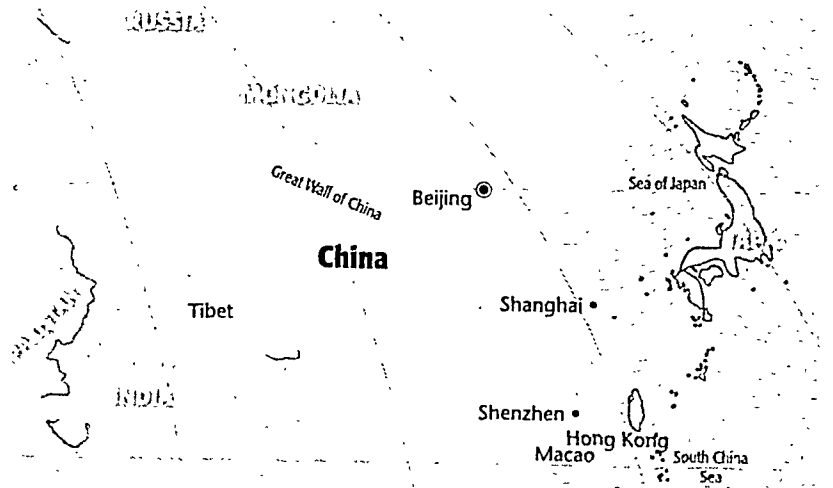
Capital: Beijing (Peking); **Other Large Cities:** Shanghai, Canton, Shenzhen; **Area:** 9,561,000 sq.km; **Population:** 1,313,973,713; **Languages:** Chinese (Mandarin) and other

local languages; **Religions:** Officially Atheist, Buddhism, Taoism, Muslim, Christian; **Literacy:** 90.9%; **Life Expectancy:** 72.58; **Currency:** Renminbi (Yuan) (\$ 1=8.00); **p.c.i:** \$ 6,800; **Date of Independence:** 221 BC (unification under the Qin or Ch'in Dynasty); 1st January, 1912 (Qing Dynasty replaced by a Republic); 1st October 1949 (People's Republic established)

Government Type: Communist state; **President:** Hu Jintao; **PM:** Wen Jiabao.

History: The most populous country in the world and the third largest in area, China is made up of 22 provinces, 5 autonomous regions and four municipalities. It occupies most of the habitable mainland of East Asia. Two-thirds of the territory is mountainous or desert; only one-tenth is cultivated. The eastern half of China is one of the world's best-watered lands. Three great river systems (the Chang or Yangtze, Huang or Yellow and Xi) provide water for the farmlands.

One of the oldest countries in the world, China became a republic in 1911. Following internal conflicts after World War II involving the Kuomintang, Communists and other factions, China came under the domination of



Communist armies. The People's Republic of China was proclaimed in Peking on October 1, 1949, under Mao Tse-Tung. The Kuomintang govt. moved to Taiwan. Dec. 8, 1949. Mao died in 1976 and Deng Xiaoping succeeded him as the 'paramount leader' of China. Deng died in 1997 and Jiang Zemin came to power.

On Oct. 26, 1971 China was admitted a member of the UN, displacing Nationalist China (Taiwan).

Economy: China is essentially an agricultural country. The main crops are rice, tea, tobacco, sugarcane, jute, soya, groundnut and hemp. The main forest products are teak and tung oil. Among the principal industries are cotton and woollen mills, iron, leather and electrical equipments. The chief minerals are coal, manganese, iron ore, gold, copper, lead, zinc, silver, tungsten, mercury, antimony and tin. Petroleum industry is steadily growing.

In late 1978, the Chinese leadership began moving the economy from a Soviet-style centrally planned economy to a more market-oriented system. The result has been a quadrupling of GDP since 1978. In 2002, with its 1.28 billion people but a GDP of just \$ 4600 per capita, China stood as the second largest economy in the world after the US (measured on a purchasing power parity basis).

China is a nuclear power well advanced in space technology. It launched its first earth satellite in April, 1970.

Student uprising in 1989 for political reform and liberalisation was put down by the government. Tiananmen Square, outside the Great Hall of the People was the main scene of the demonstrations. It is estimated that 5000 people died and 10,000 were injured. China released its top dissident leader Wang Dan in Apr. 98.

China intends to downsize its three million-strong military to 2.5m. In July '99, China banned the quasi-religious sect Falun Gong. In early '99, the constitution was amended so as to bolster private enterprise. The govt.

follows a one-child per family policy. It targets zero population growth by 2010.

Tibet: One of the five autonomous regions, Tibet is a thinly populated region of high plateaus and massive mountains. Capital: Lhasa, and population about 2.44 m., of whom 500,000 are Chinese. China installed a Communist govt. in 1951, ending the theocratic Lamaist Buddhist rule. There was an uprising in 1959. It was crushed, and Buddhism was almost totally suppressed. The Dalai Lama and 100,000 Tibetans fled to India.

Recent Events: Work on the structure of the Three Gorges Dam, the world's largest hydropower project, was completed in May 2006. A new railway has been opened linking Tibet to China. The 1100km Qinghai-Tibet railway has been built through some of the most difficult terrain on earth, and rises at one point to 5072 m above sea level.

Mission in India: Embassy of the People's Republic of China, 50-D Shantloath, Chanakya-pur, New Delhi-110021. Tel: 26881249; Fax: 26882024.

E-mail: chinaemb_in@mfz.gov.cn

Indian Mission in China: Embassy of India, 1, Ritan Dong Lu, Beijing 100600, China. Tel: 00-86-10-65321308, Fax: 00-86-10-65324684.

E-mail: dcmbech@public3.bta.net.cn

Hong Kong

Hong Kong became a Special Administrative Region of China on July 1, '97 when the colony was handed over by Britain, which ruled it for 156 years.

Capital: Victoria. **Area:** 1071 sq km. **Population:** 6,940,432. **Languages:** English and Cantonese. **Religion:** Confucianism and Buddhism. **Literacy:** 93.5%. **Currency:** Hong Kong Dollar (\$1=7.76; paid \$ 32,900). **Date of Independence:** Special Administrative Region of China.

Government Type: Limited Democracy. **Chief Executive:** Donald Tsang

Lying along the south east coast of China, at the mouth of the Canton river, Hong Kong comprises Hong Kong island, Kowloon Peninsula, the New Territories and over 230 small islands. Hong Kong became a British colony in 1843. The New Territories were acquired by Britain in 1898 by lease for 99 years. By an agreement reached in 1984, China recovered sovereignty over Hong Kong in July 1997.

The population is almost entirely Chinese with a sprinkling of other nationalities. It is one of the world's greatest transshipment ports.

Indian Mission In Hong Kong: Consulate General of India, 16-D United Centre, 95, Queensway, Hong Kong. Tel: 00-852-25284028, 25272275; Fax: 00-852-28664124.

E-mail: cg@indianconsulate.org.uk / consular@indianconsulate.org.hk

Web: www.indianconsulate.org.hk

Macao

Capital: Macao; **Area:** 15.5 sq.km; **Population:** 453,125; **Languages:** Portuguese and Cantonese; **Religions:** Confucianism; **Literacy:** 94.5%; **Currency:** Pataca (\$1 = 7.99); **p.c.i.:** \$ 22,000.

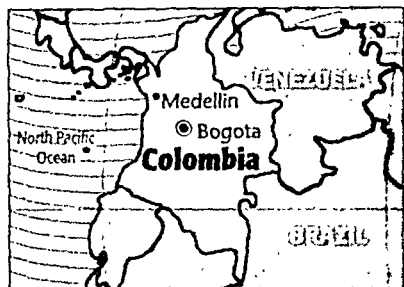
Chief Executive: (Hau-wah) Edmund Ho.

Macao or Macau is a former Portuguese territory in South China, at the mouth of the Canton river. The territory consists of the Macao peninsula and the adjoining islands of Taipa and Coloane. Portugal granted it broad autonomy in 1976. As per the agreement between Portugal and China, Macao reverted to China on Dec. 20, 1999. China has permitted Macao to continue as an independent territory mainly because of the big entrepot trade it commands. Macao is a free market for gold and an infamous centre of smuggling and gambling. China has pledged to Portugal that it will implement the 'one country two systems' principle in Macao.

The population is almost entirely Chinese. Industry, once restricted to matches and fireworks, now includes plastics, textiles, cameras, binoculars and such other consumer items. Cultivation is sparse. Only rice and vegetables are grown. Macao has an important fishing industry.

37. Colombia

(Republic of Colombia) Republica de Colombia



Capital: Bogotá; **Other Large Cities:** Medellín, Cartagena; **Area:** 1,139,000 sq.km; **Population:** 43,593,035; **Languages:** Spanish; **Religions:** Roman Catholic-90%; **Literacy:** 92.5%; **Life Expectancy:** 71.99; **Currency:** Peso (\$1=2,562); **p.c.i.:** \$ 7,900; **Date of Independence:** 20th July, 1810.

Government Type: Republic; **Head of State & Govt (President):** Alvaro Uribe Velez.

Colombia, the only nation named after Christopher COLUMBUS, situated in the north west of South America, extends up to the Isthmus of Panama. It is the only South American country that borders on both the Atlantic and Pacific oceans.

History: Colombia was discovered by Alonso de Ojeda in 1499. It was once a part of the South American Spanish Empire. In 1819, Simon Bolivar, the first President, broke the hold of Spain. Bolivar united New Granada, as it was called, with Venezuela and Ecuador in the Greater Colombia Confedera-

tion in 1819. Venezuela and Ecuador broke away in 1929-30, and Panama withdrew in 1903.

The country is caught in the grip of a vicious guerrilla war that has claimed 40,000 lives in the past decade. The two main Left-wing guerrilla groups are the Revolutionary Armed Forces of Colombia (FARC), and the smaller National Liberation Army.

Colombia is plagued by violence, mainly resulting from drug trafficking and govt's control measures. In recent years, the country has recorded the highest incidence of homicides per capita in the world.

Economy: Colombia is the largest producer and exporter of mild coffee. Other products are bananas, fresh flowers, cotton fibre, sugar, rice, tobacco, maize and wheat. The country is the world's leading producer of emeralds (50% world output) and is a substantial producer of platinum and gold; it holds the largest coal reserves in Latin America, rich nickel deposits and natural gas fields.

Industries include textiles, cement, motor vehicles, beverages, food products, chemicals and non-metallic minerals.

Colombia has 36 universities. The oldest—the Javeriana Pontifical Catholic University—was founded in 1622, and the National University in 1868. Gabriel Garcia Marquez, the internationally renowned writer, is Colombia's most famous son.

Recent Events: In February, 2006 Colombia and the US agreed on a free trade deal. In March, parties loyal to President Uribe won an overwhelming victory in parliamentary elections. In May, President Uribe won a second term in office.

Mission In India: Embassy of Colombia, 4/21, Shanti Niketan, New Delhi-110 021; Tel:26872771, 26110773, 26110824; Fax: 26112486

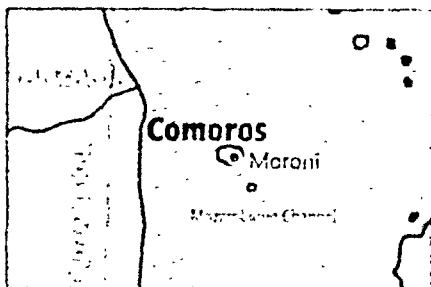
E-mail:emcolin@bol.net.in

Indian Mission In Colombia: Embassy of India, Cerrera 7, No.71-21, Oficina 1001,

Edificio Bancafe, Bogota DC, Colombia. Tel: 00-57-1-3174865, Fax:00-57-1-3174976, E-mail:indembog@cable.net.co

38. The Comoros

(Federal Islamic Republic of the Comoros) Jumhuriyat al-Qumer al-Itthadiyah al-Islamiyah



Capital: Moroni; **Other Large Cities:** Fomboni, Mutsamudu; **Area:** 1862 sq.km; **Population:** 690,948; **Languages:** Arabic and Comoran; **Religions:** Islam-98%, Roman Catholic-2%; **Literacy:** 56.5%; **Life Expectancy:** 62.33; **Currency:** Comorian Franc (\$ 1=389.23); **p.c.i:** \$1,600; **Date of Independence:** 6th July, 1975.

Government Type: Independent Republic; **Head of State:** Azali Assoumani; **PM:** Hamada Madi.

History: The Comoro Islands lie at the northern end of the Mozambique Channel, between Africa and Madagascar. The archipelago consists of 3 islands—Grande-Comore, Anjouan and Moheli—and a number of islets and coral reefs. With neighbouring Mayotte, they were attached to Madagascar from 1914 to 1947, when the four islands became a French Overseas Territory. In a 1974 referendum, the three islands voted for independence while Mayotte voted to remain French. The main islands are volcanic and Grande-Comore, the largest island, is dominated by Mount Karthala (2361 m volcano). The islands are densely forested.

In Aug., '97, separatists from Anjouan seeking a return to French rule declared independence from the Comoros federation at a rally in Mutsamudu, the main town. They wanted a status similar to that of Mayotte, which now is a French overseas territory. In Feb. '98, voters in the Indian Ocean island of Nzwani voted for a complete breach from Comoros.

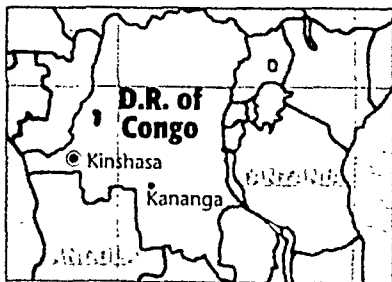
The population is a mixture of various strains—Arabs, Africans, Malagasys, Persians, Indians, Indonesians and Europeans. African and Arab influences are strongest. A purely European population of around 1500 completes the scene. Grande-Comoroe is the most populous island and has as capital and principal town, Moroni.

Economy: Agriculture is the mainstay of the economy. (Vanilla, copra, perfume plants, fruits). **Industry:** Perfumes.

Mission In India: Hon.Consulate, B-50 Gulmohar Park, New Delhi. Tel:26791100; Fax: 26791002.

39. Congo, D.R. of (Formerly Zaire)

Democratic Republic of the Congo



Capital: Kinshasa; **Other Large Cities:** Lubumbashi, Kananga; **Area:** 2,344,885 sq km; **Population:** 62,660,551; **Languages:** French, Kiswahili, Lingala and other African languages; **Religions:** Roman Catholic-50%, Protestant-20%, Kimbanguist-10%,

Muslim-10%, others-10%; **Literacy:** 65.5%; **Life Expectancy:** 51.46; **Currency:** Congolese Franc (\$1= 447.60); **p.c.i:** \$ 700 ; **Date of Independence:** 30th June, 1960.

Government Type: Dictatorship; **President:** Gen. Joseph Kabila.

History: Originally a Belgian colony (Belgian Congo), Zaire, in west central Africa, became independent on June 30, 1960. Until Oct. 1971, Zaire was known as the Democratic Republic of Congo or Congo (Kinshasa). In 1971, the name of River Congo was changed to River Zaire.

Economic difficulties plagued Zaire in the 1980s and the situation worsened in the 1990s. President Mobutu announced an end to a 20-year ban on multi-party politics in 1990. In 1991 he agreed that the political opposition should form a government. During 1994, Zaire was flooded with Hutu refugees (a million) from the ethnic bloodshed in Rwanda.

The year 1997 saw the fall of President Mobutu Sese Seko (in power since 1965), after a 7-month civil war. In May, Mobutu left Kinshasa and the next day rebel leader Laurent Kabila declared himself head of state. Zaire was renamed Democratic Republic of Congo. Lawrent Kabila was assassinated in January 2001. His son Joseph Kabila became the new leader. Two rebel leaders were sworn in VPs (July 03) • France sent a UN-backed peacekeeping force to eastern Congo to quell fighting between ethnic militias.

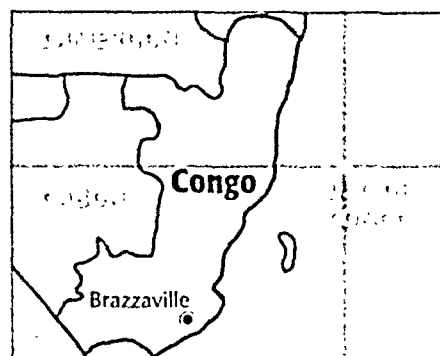
Economy: The major assets of Congo are her copper mines and the diamond deposits. The country is rich in other minerals like cobalt (60% of world reserves), cadmium, manganese, zinc and uranium. The forests abound in high class wood like mahogany, ebony and teak. Principal agricultural products are coffee, palm oil, rubber, sugarcane, maize, rice, cassava and plantains. Main manufactures are tobacco, textiles, wood products, metal items, building materials, foodstuffs and beverages.

Mission in India: Embassy of the Democratic Republic of Congo, D-6, Anand Niketan, New Delhi-110 021. Tel: 51660976.

E-mail: CongoEmbassy@yahoo.co.in

40. Congo

(Republic of the Congo) Republique du Congo



Capital: Brazzaville; **Other Large Cities:** Pointe-Noire, Loubomo; **Area:** 342,000 sq km; **Population:** 3,702,314; **Languages:** French, Lingala, Congo, Teke; **Religions:** Christian-50%, Animist-48%, Muslim-2%; **Literacy:** 83.8%; **Life Expectancy:** 52.8; **Currency:** CFA Franc (\$ 1=518.98); **p.c.i:** \$ 750; **Date of Independence:** 15th August 1960.

Government Type: Republic; **President:** Gen. Denis Sassou Nguesso.

History: Formerly part of the French Equatorial Africa, the Republic of Congo in West Central Africa became autonomous within the French Community in 1958 and fully independent in Aug. 1960. In 1963, the country adopted a Marxist-Leninist stance. In 1969, a new constitution was promulgated. Marxism was renounced in 1990. A democratically elected government came into office in 1992.

In June 97, fighting broke out between armed forces backing President Lissouba and his once marxist predecessor Denis Sassou Nguesso. Troops loyal to the latter took control of Brazzaville in October.

Economy: Agriculture: Palm oil and kernels, cassava, cocoa, coffee, tobacco. Industry: Processed foods, textiles, cement, metal industries. Main exports: timber, diamonds, palm oil, crude petroleum, sugar and groundnuts.

Mission in India: Embassy of the Republic of Congo stationed at Beijing.

41. Costa Rica

(Republic of Costa Rica) Republica de Costa Rica



Capital: San Jose; **Other Large Cities:** Alajuela, Cartago, Area: 51,100 sq.km; **Population:** 4,075,261; **Languages:** Spanish, **Religions:** Roman Catholic-76.3%, Evangelical-13.7%, Jehovah's Witnesses-1.3%, Other Protestant-0.7%, others-4.8%, None-3.2%; **Literacy:** 96%; **Life Expectancy:** 77.02; **Currency:** Colon (\$1=512.195); **p.c.i:** \$ 11,100; **Date of Independence:** 15th September 1821.

Government Type: Democratic Republic; **Head of State & Govt (President):** Oscar Arias Sanchez.

The Republic of Costa Rica (the Rich Coast) is a Central American state. It lies between Nicaragua and Panama.

History: For nearly three centuries Costa Rica formed part of the Spanish American dominion. In 1821 it became independent.

Economy: The country is mainly agricultural. Coffee is the most important crop, accounting for about half the export. Other crops include banana, sugar.

In Aug., '97, separatists from Anjouan seeking a return to French rule declared independence from the Comoros federation at a rally in Mutsamudu, the main town. They wanted a status similar to that of Mayotte, which now is a French overseas territory. In Feb. '98, voters in the Indian Ocean island of Nzwani voted for a complete breach from Comoros.

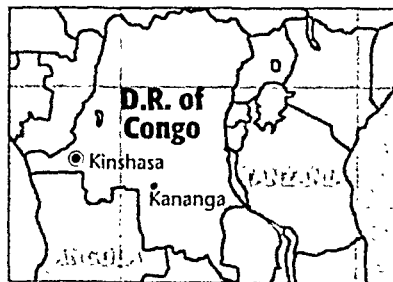
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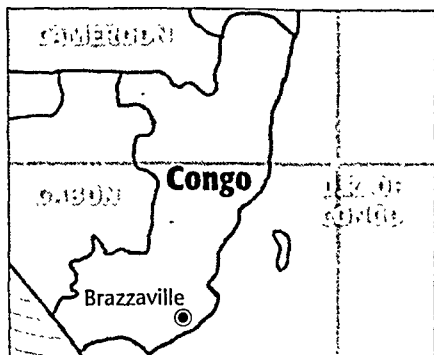
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E-mail: CongoEmbassy@yahoo.co.in

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History: For nearly three centuries Costa Rica formed part of the Spanish American dominion. In 1821 it became independent.

Economy: The country is primarily agricultural. Coffee is the most important crop, accounting for about 25% of the exports. Other crops include banana, sugar, and rice.

Bananas, cocoa, cattle and, recently, sugar are exported. In recent years there has been a shift towards high-tech exports like computer chips and services. Now Costa Rica is the largest exporter of technology goods per capita in Latin America. After abolishing its army nearly half a century ago, the country has pumped large sums of money into education, creating a highly skilled workforce that reflects a population with a 95% literacy rate.

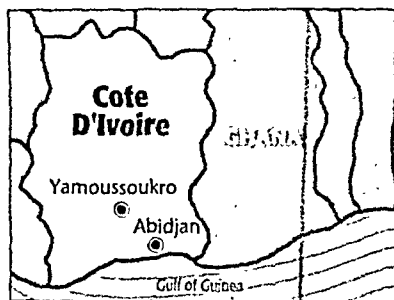
Industry: Pharmaceuticals, furniture, aluminium, textiles, tourism. People enjoy a relatively high standard of living. 93% have electricity. Silicon processors have brought prosperity to Costa Rica in recent years.

Mission In India: Hon. Consulate General of Costa Rica, D-388 Defence Colony, New Delhi-110 024. Tel: 24625670; Fax: 23327231;

E-mail: bradynd@de12.vsnl.net.in

42. Cote D'Ivoire (Ivory Coast)

(Republique de la Cote d'Ivoire)



Capital: Yamoussoukro (official), Abidjan (de facto); **Other Large Cities:** Bouake; **Area:** 322,462 sq.km.; **Population:** 17,654,843; **Languages:** French and Tribal; **Religions:** Christian-20-30%, Muslim-35-40%, Indigenous-25-40% (2001). The majority of foreigners (migratory workers) are Muslim-70% and Christian (20%); **Literacy:** 50.9%; **Life Expectancy:** 48.82; **Currency:** CFA Franc

(\$1=518.98); p.c.i: \$ 1,600 ; **Date of Independence:** 7th August, 1960.

Government Type: Republic; **President:** Laurent Gbagbo; **PM:** Charles Konan Banny.

Cote D'Ivoire in Western Africa is bordered by Mali and Burkina Faso in the north, Ghana in the east, the Gulf of Guinea in the south, and Liberia and Guinea in the west.

History: The Republic of Ivory Coast, once an overseas territory of France, became independent on August 7, 1960. From 1986, the French version of the name became the only correct title. There are about 60 ethnic groups, the principal being the Baule, the Bete and the Senufo. General Robert Guei seized power in Dec. 1999. There was a coup attempt in 2002. A peace agreement was signed in 2003, but there was trouble again. A power-sharing plan was arrived at in Mar. 03, and ceasefire signed in May.

Economy: Agriculture, forestry and fishing employ 90 per cent of the population. Cote D'Ivoire is world's largest cocoa producer, the third most important coffee producer and the most important African producer of timber. Sugar, cotton, bananas and pineapples are other important crops. Industrialisation has developed rapidly since independence, particularly food processing, textiles and saw mills. **Important minerals:** Diamonds and manganese.

Mission In India: Embassy of Cote D'Ivoire stationed at Moscow.

Hon. Consulate, Punj House, M-13, Connaught Place, New Delhi-110 001. Tel: 23415621.

E-mail: virendra@punj.com

Indian Mission in Cote D'Ivoire (Ivory Coast): Embassy of India, Villa No. 105, rue L98, 7eme Tranche, Cocody/II Plateaux-Angre, 06 B.P. 318, Abidjan 06, Cote d'Ivoire. Tel: 00-225-22423769, 22427079; Fax: 00-22426649.

E-mail: indemabj@africaonline.co.ci

43. Croatia

(Republic of Croatia) Republika Hrvatska



Capital: Zagreb; **Other Large Cities:** Zagreb, Split; **Area:** 56,538 sq. km; **Population:** 4,494,749; **Languages:** Serbo-Croatian; **Religions:** Roman Catholic-87.8%, Orthodox-4.4%, Muslim-1.3%, Protestant-0.3%, others and unknown-6.2%; **Literacy:** 98.5%; **Life Expectancy:** 74.68; **Currency:** Kuna (\$1=5.7365); **p.c.i:** \$ 11,600; **Date of Independence:** 25th June, 1991.

Government Type: Parliamentary Democracy; **President:** Stipe Mesic; **PM:** Dr. Ivo Sanader.

History: Former Yugoslavia's second largest republic, Croatia in S.E. Europe, has an extensive Adriatic coastline.

Croats migrated to their present territory in the 6th century. Croatia was united with Hungary in 1091. In 1918, Croatia became a part of the new Kingdom of Serbs, Croats and Slovenes, which was renamed Yugoslavia in 1929. Croatia then became one of the six 'Socialist Republics' constituting the Yugoslav federation. On June 25, 1991, Croatia declared independence. Serbs rebelled, sparking a 7 month-long civil war. The Krajina and other predominantly Serb areas proclaimed the desire for union with Serbia. UN peace-keeping mission arrived at the beginning of 1992. European Community (EC) recognised Croatia on January 15, 1992. Fighting between ethnic Serbs and Croats continued. A

ceasefire with Serb rebels forming a self-declared republic of Krajina was agreed to in March, 1994. In Aug, '96, Croatia and Serbia agreed to resume normal diplomatic ties after years of hostility. Croatia joined NATO's extended family in May, 2000.

Ethnic breakdown: Croats-75%; Serbs-12%; others-13%.

Economy: Agricultural products: Wheat, maize, potatoes, olives, plums, livestock, timber. Industry: Textiles, chemicals, coal, lignite, cement, sugar, steel, plastics, textiles.

Croatia's spectacular Adriatic coastline has long been a major package-tourist attraction notably the ancient city of Dubrovnik, which took a severe battering from the Yugoslav army in 1991.

Nearly 70% of trade exchange between ex-Yugoslavia and India was with Croatia. Upto one-third of the Indian fleet for nearly 40 years was built in Croatian shipyards.

Mission in India: Embassy of the Republic of Croatia, A-15, West End, New Delhi-110 021. Tel: 26876871/72; Fax : 26876873

E-mail: croemnd@del1.vsnl.net.in

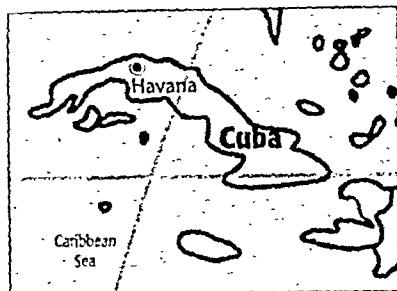
Indian Mission in Croatia: Embassy of India, Boskoviciceva 7A 10000, Zagreb, Croatia. Tel: 00-385-1-4873239, 4873240, 4873241; Fax: 00-385-1-4817907.

E-mail: embassy.india@zg.tel.hr Web: www.ring.net/india

44. Cuba

(Republic of Cuba) Republica de Cuba

Capital: Havana; **Other Large Cities :** Santiago de Cuba, Santa Clara; **Area:** 110,922 sq.km; **Population:** 11,382,820; **Languages:** Spanish; **Religions:** Nominally 85% Roman Catholic before Castro assumed power; Protestants, Jehovah's Witnesses, Jews, and Santería are also represented; **Literacy:** 97%; **Life Expectancy:** 77.41; **Currency:** Peso (\$1 = 24.20 CUP); **p.c.i:** \$ 3,500; **Date of Independence:** 1902.



Government Type: Communist State;
Head of State & Govt (President): Dr. Fidel Castro Ruz; **First Vice President:** Raul Castro Ruz.

History: Cuba, the largest island in the Greater Antilles group is known as the Pearl of the Caribbean Sea. It is formed by two main islands - the island of Cuba and the Isle of Youth - and more than 4000 keys and small isles. Its neighbours are USA, Mexico, Jamaica and Haiti.

Columbus discovered Cuba in 1492 and Spain ruled it for four centuries. In 1898 Cuba became an independent republic.

In 1959 Dr. Fidel Castro overthrew General Batista, the dictatorial president and took over power. Emigres made an unsuccessful invasion at the Bay of Pigs in Apr. 1961. In 1962 USA learned that USSR had brought nuclear missiles to Cuba. After a warning from President J.F. Kennedy, the missiles were removed. A communist constitution came into force in 1976, and direct parliamentary elections were permitted in 1992. In Jan. '98, Fidel Castro was re-elected president.

Economy: Cuba is the largest producer of sugar in the world. Tobacco is the second largest crop. Cattle, poultry and fishing have become important in recent years. Cuba is rich in nickel deposits. Copper, chromite and manganese are also found.

Industry: Cement, sugar, food-processing, textiles, tobacco. Sugar, nickel and fishing are the top three export industries.

Recent Events: In February 2006, propa-

ganda war escalated in Havana as Preside Castro unveiled a monument which blocked the view of illuminated messages - some about human rights - displayed on the US mission building. In July, President Castro underwent surgery and temporarily handed over control of the government to his brother Raul.

Mission in India: Embassy of the Republic of Cuba, E-1/9, Vasant Vihar, New Delhi-110 057. Tel: 26145459, 26143849, 26142515; Fax: 26143806.

E-mail: embcuind@del6.vsnl.net.in

Indian Mission in Cuba: Embassy of India, Calle 21, No. 202, Esquina K, Vedado, La Havana, Cuba. Tel: 00-53-7-333777, 00-53-7-333169, 551700; Fax: 00-53-7-333287.

E-mail: eoihav@cenai.inf.cu

45. Cyprus

(Republic of Cyprus) Kypriaki Dimokratia (Greek)/Kibiris Cumhuriyeti (Turkish)



Capital: Nicosia; **Other Large Cities:** Limassol, Larnanca; **Area:** 9,251 sq.km; **Population:** 784,301; **Languages:** Greek, Turkish and English; **Religions:** Greek Orthodox-78%, Muslim-18%, Maronite, Armenian Apostolic and others-4%; **Literacy:** 97.6%; **Life Expectancy:** 77.82; **Currency:** Cyprus Pound (\$1=0.466). p.c.i : \$ 21,600; **Date of Independence:** 16th August, 1960.

Government Type: Republic; **President & PM:** Tassos Papadopoulos.

History: The Republic of Cyprus lies in the North Eastern corner of the East Mediterra-

nean basin, at the meeting point of three continents—Europe, Asia and Africa. Cyprus became independent in 1960. In 1974 it was invaded by Turkey and nearly 40% of its territory is still under Turkish occupation. A Turkish Cypriot Federated State was proclaimed in 1975 and in 1983 the state unilaterally proclaimed itself as the 'Turkish Republic of Northern Cyprus' (TRNC). In 1994, informal talks were held between the Presidents of Cyprus and TRNC but no progress was made. In Aug'96, violence jolted Cypriots on both sides. UN attempts to reunify Cyprus have not been successful.

Economy: The healthy climate and the natural beauty of the island make it an ideal place for tourists.

Cyprus is mainly an agricultural island. Main agricultural exports are: potatoes, grapes, carrots, fresh vegetables, citrus, milk. Main industrial exports are: readymade clothing, footwear, cement, travel goods, plastic products, water pumps, furniture, cosmetics, etc.

Recent Events: In May, 2006 Greek Cypriots backed ruling coalition in parliamentary elections, endorsing its opposition to reunification efforts. In July, UN-sponsored talks between President Papadopolous and Turkish Cypriot leader Mehmet Ali Talat agreed a series of confidence-building measures and contacts between the two communities.

Mission in India: High Commission of the Republic of Cyprus, 106, Jor Bagh, New Delhi-110 003. Tel: 24697503, 24697508; Fax: 2462 8828.

E-mail: cyprus@del3.vsnl.net.in

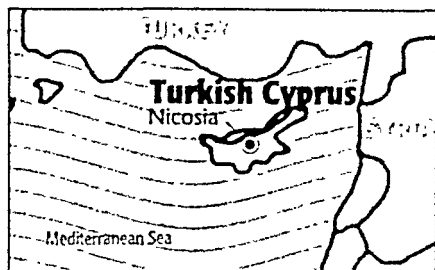
Web: www.cyprusdelhi.com

Indian Mission in Cyprus: High Commission of India, 3, Indira Gandhi Street, Montparnasse Hill, P.O. Box 25544, Engomi, 2413 Nicosia, Cyprus. Tel: 00-357-2-351741, 351170; Fax: 00-357-2-350402.

E-mail: india@spidernet.com.cy

46. Turkish Cyprus

Turkish Republic of Northern Cyprus



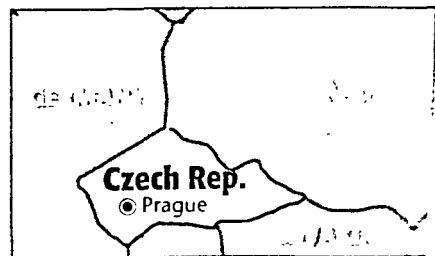
Capital: Nicosia; **Area:** 3355 sq.km; **Population:** 134,000 (1995 estimate); **Languages:** Turkish; **Currency:** Turkish Lira.

PM: Dervis Eroglu.

The Turkish - controlled area of Northern Cyprus unilaterally declared independence in 1983. It has been named 'Turkish Republic of Northern Cyprus.' The Republic is not internationally recognised although it does have trade relation with some countries. There is a 50-strong Legislative Assembly.

47. Czech Republic

(Ceska Republika)



Capital: Prague **Other Large Cities:** Brno, Ostrava. **Area:** 78,864 sq km; **Population:** 10,235,455 **Languages:** Czech; **Religion:** Roman Catholic-26.8%, Protestant-3.3%, unspecified-8.8%, unspecified-99%. **Life Expectancy:** 75 years. **The Koruna (\$1 = 22.55);** **Year of Independence:** 1st Jan

Government Type: Parliamentary Democracy; **President:** Vaclav Klaus; **PM:** Jiri Paroubek.

History: The Czech Republic and Slovakia became independent states on January 1, 1993, when the Czech and Slovak Federal Republic (Czechoslovakia) was dissolved.

Czechoslovakia, a republic landlocked in Central Europe, was composed of 64% Czechs and 31% Slovaks. The Czechoslovak Socialist Republic was established in January 1969 as a federal state of two nations of equal rights. In 1990, the country changed its name to the Czech and Slovak Federative Republic and dropped 'socialist' to symbolise its departure from the communist past. Disputes between the two regions over post-communist reforms turned the union bitter. In June, 1992 the 74-year old federation's Czech and Slovak regions agreed to part.

The Czech republic is bounded by Germany, Poland, Slovakia and Austria. Czechs constitute 81.2%, Moravian and Silesians 13.7%, and Slovaks 3.1%. About 40% of people call themselves atheists. Czech Republic is a member of NATO.

Economy: Agriculture: Sugarbeet, wheat, potatoes, barley, maize, rye. Industry: Pig iron, crude steel, rolled steel products, cement, paper, sulphuric acid, synthetic fibres, sugar, beer, armaments, cars. Minerals: Coal, caolin, uranium.

Recent Events: In June 2006, general elections resulted in hung parliament.

Mission In India: Embassy of the Czech Republic, 50-M, Niti Marg, Chanakyapuri, New Delhi-110 021, Tel: 26110205, 26110318, 26110382, 26886218; Fax: 91-11-26886221.

E-mail: newdelhi@embassy.mzv.cz

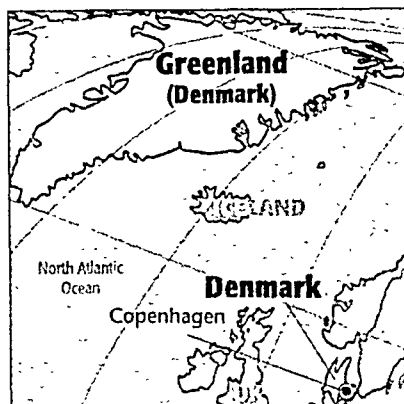
Web: mfa.cz/newdelhi

Indian Mission In Czech Republic: Embassy of India, Valdstejska 6, Malastrana, 118 00 Prague-1, Czech Republic. Tel: 00-420-2-57533490-93; Fax: 00-420-2-57533285, 57533378.

E-mail: indempague@bohem.net.cz/
eiprague.comwing@nectraa.cz

48. Denmark

(Kingdom of Denmark) Kongeriget Danmark



Capital: Copenhagen; **Other Large Cities:** Odense, Alborg, Randers; **Area:** 43,074 sq km; **Population:** 5,450,661; **Languages:** Danish; **Religions:** Evangelical Lutheran-95%, Other Protestant and Roman Catholic-3%, Muslim-2%; **Literacy:** 99%; **Life Expectancy:** 77.79; **Currency:** Danish Krone (\$1=6.89); **p.c.i.:** \$ 34,600; **Date of Independence:** Denmark was first organised as a unified state in the 10th century. In 1849, Denmark became a Constitutional Monarchy.

Government Type: Constitutional Monarchy; **Head of State:** Queen Margrethe II; **PM:** Anders Fogh Rasmussen.

History: Denmark, the smallest of the Scandinavian countries, is situated in northern Europe between the North Sea and the Baltic Sea. It comprises the peninsula of Jutland, the Islands of Zealand, Funen and Bornholm and 480 smaller islands. Greenland, the world's largest island, and the Faeroe Islands also form part of the Kingdom of Denmark. No one in Denmark is more than 52 km from the sea.

No wonder that the Danes were Vikings a few generations ago.

Denmark is a constitutional monarchy, the Queen and the Parliament (Folketing) jointly holding legislative powers.

Economy: About 62 per cent of the land is under cultivation. Denmark is one of the largest exporters of dairy products. Fishing forms an important occupation. Denmark is famous for its co-operative institutions. The first co-operative society was established in 1866. Shipbuilding, machinery of different types, textiles, furniture, iron and steel-ware account for a major portion of industry. Danish exports include stylish furniture, the hi-fi equipment of Bang & Olufsen, and the ubiquitous plastic Lego bricks. Legal marriage between persons of the same sex has been permitted since 1989. Denmark is close to being the leading donor among industrialised countries. Foreigners form less than 5% of the population.

Recent Events: In January-February, diplomatic storm grew over cartoon depictions of the prophet Muhammad, published by a Danish newspaper in 2005, which angered many Muslims.

Mission in India: Royal Danish Embassy, 11-Aurangzeb Rd., New Delhi-110011. Tel: 23010900, 23010002/04, 23010899 (Visa); Telefax: 23792019, 23792891.

E-mail: denmark@vsnl.com

Indian Mission in Denmark: Embassy of India, Vangehusvej 15, 2100 Copenhagen, Denmark. Tel: 00-45-39299201, 39182888, 39182995; Telefax: 00-45-39270218.

E-mail: indemb@euroconnect.dk

Outlying Territories of Denmark

The Faeroe Islands

Capital: Torshavn; **Area:** 1399 sq.km; **Population:** 47,246.

PM: Joannes Eidesgaard.

The islands, in the North Atlantic, are mountainous and of volcanic origin. The is-

lands have been represented in the Danish Parliament since 1851. They are self-governing in most matters.

Only 2% of the surface is cultivated. Grazing is the mainstay of the economy. Deep sea fishing is the most important sector.

Greenland

Capital: Nuuk (Godthaab); **Area:** 2,175,600 sq.km; **Population:** 56,361.

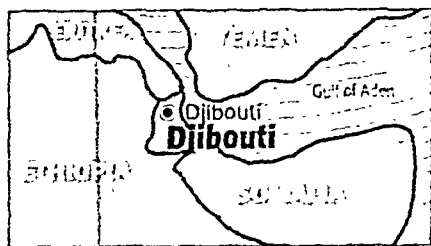
PM: Hans Enoksen. The world's largest island, Greenland lies between the North Atlantic and the Polar Sea. Over 80% of the area is ice-capped.

A Danish possession since 1380, Greenland became an integral part of the Danish Kingdom in 1953. In 1979 home rule was won by Greenland. With this, Greenlandic place names came into official use. Greenland is now Kalaallit Nunaat. The capital is Nuuk (old one Godthab). Full internal self-government was attained in Jan., 1981.

Fish is the main product of the island. Greenland is the world's only source of natural cryolite, important in making aluminium.

49. Djibouti

(Republic of Djibouti) Jumhuriyya Djibouti



Capital: Djibouti; **Area:** 21,783 sq.km; **Population:** 486,530; **Languages:** French, Arabic, Affar, Issa; **Religions:** Muslim-94%, Christian-6%; **Literacy:** 67.9%; **Life Expectancy:** 43.17; **Currency:** Djibouti Franc (\$1 = 175); **p.c.i.:** \$ 1,300; **Date of Independence:** June, 1977.

Government Type: Republic; **President:** Ismail Omar Guelleh; **PM:** Mohamed Dileita Dileita

History: Djibouti, first known as French Somaliland and then as the French Territory of Afars and Issas, became independent on June 27, 1977 under the name of Djibouti. Lying between Ethiopia and Somalia and looking out on the Red Sea and the Gulf of Aden, the state is of extreme strategic importance.

Economy: The land is economically poor, being mostly volcanic desert with scattered plateaus and highlands. Agriculture is possible only in restricted areas with irrigation facilities. Goats, sheep and camels form the major wealth of the state. Salt is a major product. Huge salt deposits are found in the lakes of Alol and Assal. Trade is almost entirely based in the capital Djibouti. French aid as well as assistance from Arab countries is the mainstay of the economy. A 3 - year-long uprising by Afar rebels in the north belonging to the Front for the Restoration of Unity and Democracy (FRUD) ended with a peace accord in 1994. Ethiopia and Somalia have renounced their claims to Djibouti.

Mission in India: Embassy of the Republic of Djibouti stationed at Tokyo.

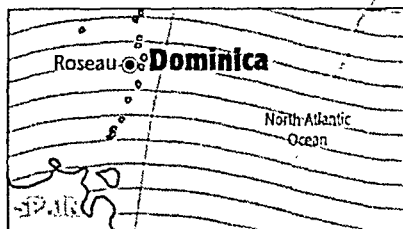
Mission in India: Honorary Consulate 3, Aurangzeb Lane, New Delhi-110011; Tel: 23011642/648; Telefax: 23011634.

E-mail: djibouti@spectranet.com

50. Dominica

(Commonwealth of Dominica)

Capital: Roseau; **Area:** 750 sq km; **Population:** 68,910; **Languages:** English and French Patois; **Religions:** Roman Catholic-77%, Protestant-15%, None-2%, others-6%; **Literacy:** 94%; **Life Expectancy:** 74.87; **Currency:** East Caribbean Dollar (\$1=2.70); **p.c.i.:** \$5,500; **Date of Independence:** 3rd November, 1978



Government Type: Parliamentary Democracy; **President:** Nicholas J.O. Liverpool; **PM:** Roosevelt Skerit.

History: Commonwealth of Dominica lies in the Lesser Antilles in Eastern Caribbean. Once a British protectorate, it assumed the status of a British Associate State in 1967 and became fully independent on Nov. 3, 1978.

The island is volcanic in origin and largely mountainous with numerous thermal springs. The population includes Negroes, Mulattoes, Carib Indians and Europeans.

Economy: Exports include bananas, cocoa, copra and fruits. Tourism is an important industry.

The French franc, the pound sterling and East Caribbean dollar are legal tender.

Mission in India: Honorary Consulate of Commonwealth of Dominica, 283, Gulmohar Enclave, New Delhi-110011; Tel: 26862595; Fax: 26862595.

E-mail: shukla_dominica@hotmail.com

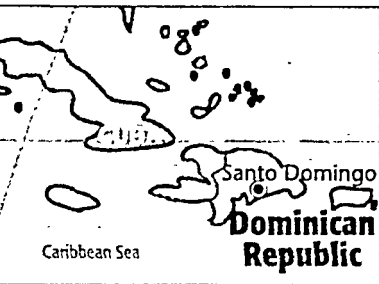
51. Dominican Republic

(Republica Dominicana)

Capital: Santo Domingo; **Other Large Cities:** La Vega, San Pedro; **Area:** 48,442 sq km; **Population:** 9,183,984; **Languages:** Spanish; **Religions:** Roman Catholic-95%; **Literacy:** 84.7%; **Life Expectancy:** 71.73; **Currency:** Peso (\$1=32.87); **p.c.i.:** \$7,000; **Date of Independence:** 27th February, 1844.

Government Type: Republic; **Head of State & Govt (President):** Leonel Fernandez.

History: The Dominican Republic in the West Indies occupies the eastern two-thirds



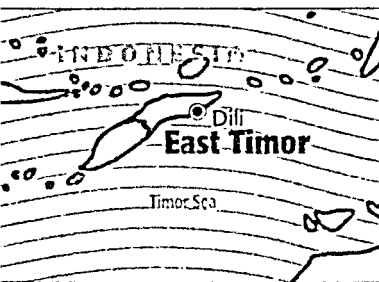
San Juan, the second largest island of the West Indies. Originally under Spain, the Dominican Republic became independent in 1821. The population is mainly composed of mixed race of European (Spanish) and African descent.

Economy: The state is predominantly agricultural. The most important crops are sugarcane, coffee, cocoa, tobacco and rice. Industry: Sugar refining, textiles, cement.

Hurricane George struck the country in September, 1998. In 2003, Amelia Vega, was crowned Miss Universe.

East Timor

Democratic Republic of East Timor)



Capital: Dili; **Area:** 14,874 sq km; **Population:** 1,088,000; **Languages:** Tetum & Portuguese (official), English and Bahasa Indonesian (work-languages); **Religions:** Catholic-90%, Muslim-1%, Protestant-3%, Hindu-0.5%, Buddhist, Christian; **Literacy:** 58.6% (2001); **Life Expectancy:** 66.26; **Currency:** 1 US dollar and Indonesian Rupiah (\$1=9010); **p.c.i:** \$ 400; **Date of Independence:** 20th May, 2002.

Government Type: Republic; **President:** Xanana Gusmao; **PM:** Mari Alkatiri.

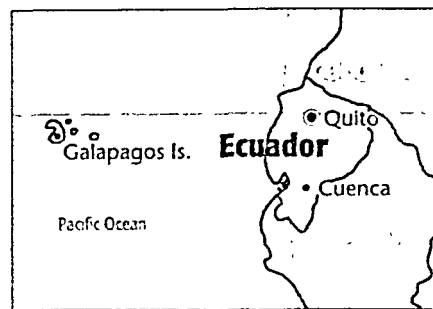
History: At midnight on May 19, 2002 East Timor became an independent country, after 450 years of Portuguese rule, 24 of brutal Indonesian occupation and two-and-a-half under the supervision of the UN. East Timor became a member of the United Nations in Sept. 2002.

Economy: East Timor's economy is dominated by agriculture with 75% of the country's population engaging in this activity. The major agricultural products are sweet potatoes and corn along with cash crops – especially coffee. Farmers on the coastal plains also grow rice and plantation crops such as rubber, tobacco, and coconuts. In addition, the forests yield many kinds of timber, including sandal wood.

Most of the people of Timor are of mixed Malay, Polynesian and Papuan descent. Members of a small ethnic community play an important role in the island's commerce.

53. Ecuador

(Republic of Ecuador) Republica del Ecuador



Capital: Quito; **Other Large Cities:** Guayaquil, Cuenca; **Area:** 283,561 sq km; **Population:** 13,547,510; **Languages:** Spanish, Quechuan and tribal dialects; **Religion:** Roman Catholic-95%; **Literacy:** 92.5%; **Life Expectancy:** 76.42; **Currency:** US dollar

\$1=1); p.c.i: \$ 4,300; Date of Independence: 24th May, 1822

Government Type: Republic; **Head of State & Govt (President):** Alfredo Palacio.

History: Ecuador lies on the west coast of South America. A part of the great Inca Empire, Ecuador came under Spanish rule in 1533. It became independent in 1830.

Some 40% of the population is Amerindian. Guayaquil is the chief seaport and airport. The Galapagos islands (the home of huge tortoises) belong to Ecuador.

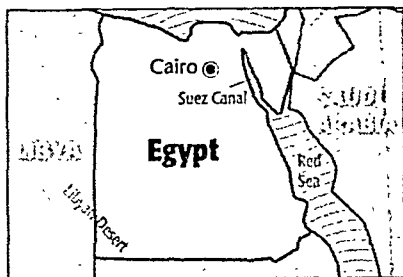
Economy: Ecuador is the world's largest exporter of bananas. Sugarcane, African palm, cacao, balsawood (world's largest exporter), rice and coffee are grown.

In Mar.-April '94, Ecuador and Peru fought a month-long war over a disputed border area. The Andean nations had fought wars in 1941 and 1981, over 78 km. of unmarked border amid a mountainous jungle. In Aug. '98, Peru charged Ecuadorean troops had entered its territory.

Industry: Food processing, wood products, textiles, sugar. Silver ore is now the chief mineral product. There are large deposits of copper, gold and zinc. The production of petroleum is increasing. The so-called 'Panama' hats made of Tequila straw are made in Ecuador.

In Feb. '99, the currency was devalued, following the worst economic crisis in 70 years. The economy had been ravaged by high interest rates, plunging oil prices and El Nino-related storms and flooding.

Recent Events: In March 2006, nationwide protests flared over a proposed free trade agreement with the US.



78,887,007; **Languages:** Arabic, English; **Religions:** Muslim (mostly Sunni)-90%, Coptic-9%, Other Christian-1%; **Literacy:** 57.7%; **Life Expectancy:** 71.291; **Currency:** Egyptian Pound (\$1=6.757); p.c.i: \$ 3,900; **Date of Independence:** 28th February, 1922.

Government Type: Republic; **President:** Hosni Mubarak; **PM:** Ahmed Nazif.

Egypt, traditionally known as the Gift of the Nile, occupies north east Africa.

History: Egypt has one of the oldest civilisations in the world, its recorded history going back to more than 5000 B.C. In 1922 Egypt became an independent monarchy and in 1953 a republic. Egypt merged with Syria in 1958 to form United Arab Republic; Syria broke away from the union in 1961.

The Suez Canal (173 km. long, connecting the Mediterranean with the Red Sea) was opened for navigation in 1869; nationalised 1956, closed 1967, reopened 1975. The Aswan High Dam (1971) provides irrigation for more than a million acres of land.

Economy: The main agricultural area is Lower Egypt which covers the delta of the Nile. Crops are cotton, onions, wheat, maize, millet, rice, sugarcane and fruits of various kinds. **Industry:** Textiles, chemicals, petrochemicals, food processing, cement. **Exports** are cotton, rice, mineral products, textiles, refrigerators, tyres, cement and electrical instruments.

The population boom is causing concern. Islamic militancy is a new threat in Egypt.

Recent Events: In February 2006, up to

54. Egypt

(Arab Republic of Egypt) Jumhuriyah Misr al-Arabiya

Capital: Cairo; **Other Large Cities:** Alexandria, Giza; **Area:** 997,677 sq.km; **Population:**

1,000 people died when a ferry carrying about 1,400 passengers from Saudi Arabia to Egypt sank in the Red Sea. In April, bomb attacks in the Red Sea resort of Dahab killed more than 20 people.

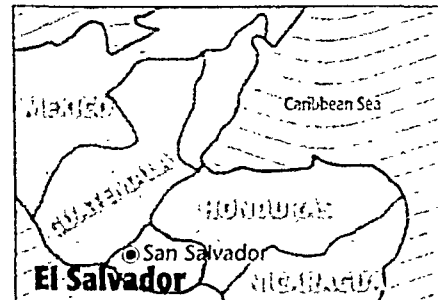
Mission in India: Embassy of the Arab Republic of Egypt, 1/50-M, Niti Marg, Chanakyapuri, New Delhi-110021. Tel: 26114096/97; Fax: 91-11-26885355.

Indian Mission in Egypt: Embassy of India, 5 Aziz Abaza Street, Zamalek, P.O. Box No.718, Cairo 11511, Egypt. Tel: 00-20-2-7360052, 7356053; Fax: 00-20-2-7364038.

E-mail:embassy@india-emb.org.eg

55. El Salvador

(Republic of El Salvador) Republica do El Salvador



Capital: San Salvador ; **Other Large Cities:** Santa Ana, San Maguel ; **Area:** 21,393 sq.km; **Population:** 6,822,378; **Languages:** Spanish; **Religions:** Roman Catholic-83%; **Literacy:** 80.2%; **Life Expectancy:** 71.49; **Currency:** Colon (\$1 =8.75); **p.c.i:** \$ 4,700; **Date of Independence:** 15th September, 1821.

Government Type: Republic; **Head of State & Govt (President):** Elias Antonio Saca Gonzalez.

History: El Salvador in Central America became independent of Spain in 1821 and of the Central American Federation in 1839. It is the smallest and the most densely populated of the Central American States

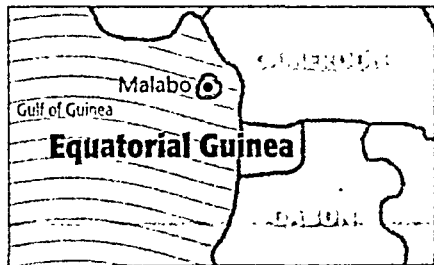
and the only one without an Atlantic coast line.

Economy: The country is predominantly agricultural. The principal crop is coffee which accounts for one half of exports. Other products are cotton, maize and sugar. Fisheries are being developed and figure prominently in the export list. **Industry:** Food & beverages, textiles, petroleum products.

A 12-year civil war that killed 75,000 people ended in 1992. In 1998 Hurricane Mitch killed 200 and made 30,000 homeless. In 2001, earthquakes and drought caused heavy damage.

56. Equatorial Guinea

(Republic of Equatorial Guinea) Republica de Guinea Ecuatorial



Capital: Malabo ; **Other Large Cities:** Bata **Area:** 28,051 sq.km; **Population:** 540,109; **Languages:** Spanish, Fang, Bubi and pidgin English; **Religions:** Nominally Christian and predominantly Roman Catholic, pagan practices; **Literacy:** 85.7%; **Life Expectancy:** 49.54; **Currency:** CFA Franc (\$1 = 618.98); **p.c.i:** \$ 50,200 ; **Date of Independence:** 12th October, 1968.

Government Type: Republic; **President:** Brig-Gen. Teodoro Obiang Nguema Mbasogo; **PM:** Miguel Abia Biteo Borico.

History: Equatorial Guinea, formerly Spanish Guinea, comprises the islands of Fernando Po (now Bioko), Corcisco, Great Elobey, Elobey, and Annoban and the main

ritory of Rio Muni on the west coast of Africa. In 1975, almost all place names were changed by President Macias Nguema. The capital Santa Isabel thus became Malabo. Macias Nguema was ousted by his nephew, Mbasogo on Sept. 29, 1979. Constitutional rule was resumed in 1982.

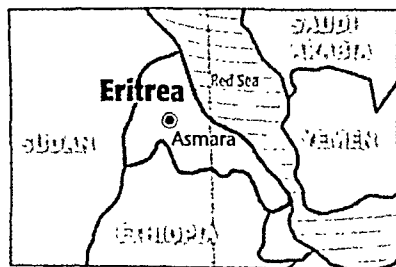
Economy: The island of Fernando Po is mostly mountainous. Coffee is cultivated upto 900 m and cocoa upto 600 m unit. There are also forests of ebony, mahogany and oak. Other products are cocoa, coffee, timber, palm oil and bananas. The country is heavily dependent on foreign aid.

Recent Events: There was coup attempt in Aug. '04. Mark Thatcher was arrested for alleged involvement.

Mission in India: Embassy of the Republic of Equatorial Guinea stationed at Beijing.

57. Eritrea

(State of Eritrea)



Capital: Asmara; **Other Large Cities:** The Ports of Massawa and Assab; **Area:** 117,600 sq. km; **Population:** 4,786,994; **Languages:** Tigrinya Arabic and several other local languages; **Religions:** Muslim, Coptic Christian, Roman Catholic, Protestant; **Literacy:** 58.6%; **Life Expectancy:** 59.03; **Currency:** Nakfa (\$1=13.60); **p.c.i:** \$ 1,000; **Date of Independence:** 24th May, 1993.

Government Type: Transitional Government; **Head of State & Govt (President):** Issaias Afworki.

History: Eritrea, until recently the northernmost province of Ethiopia, is situated on the African shore of the Red Sea. In 1890, it became an Italian colony but Italy lost the colony to a British invasion force in 1941. After World War II, a U.N. resolution made Eritrea an autonomous, self-governing region of Ethiopia, apparently against the wishes of most of Eritrea's population. In 1962 Ethiopian emperor Haile Selassie formally annexed Eritrea. Beginning in the mid-60's the province was repeatedly torn by fighting between the Eritrean Liberation Front (ELF) and other groups like Eritrean People's Liberation Front (EPLF) advocating secession from Ethiopia, and the Ethiopian army. Africa's longest civil war of 31 years ended in 1993 and on May 24, Eritrea became an independent nation—Africa's 52nd. It was admitted to the Organisation of African Unity and the United Nations.

Border clashes between Eritrea and Ethiopia in May-June '98 led to the death of hundreds, and an end to the very cordial relations between the two neighbours. Fighting resumed in 1999. In May, 2000, Eritrea announced withdrawal of troops from disputed border territory. In 2002, an international commission gave a ruling on the border but the tensions continued.

There are nine ethnic groups in Eritrea. Massawa is the chief port. Only 5% of the land is under cultivation. Nearly a million Eritreans lived abroad in 1995.

Economy: Agriculture: Sorghum, livestock including camels and goats, Red Sea fishing. Minerals: Gold, copper, potash, iron ore. Exports: Hides, salt, cement, gum arabic.

Mission in India: Hon. Consulate of Eritrea, B-8/14, Vasant Vihar, New Delhi-110 057. Tel: 26140830; Telefax: 91-11-26141067.

58. Estonia

(Republic of Estonia)/Esti Vabariik

Capital: Tallinn; **Other Large Cities:** Tartu, Kohtla-Järve ; **Area:** 45,100 sq.km; **Popula-**



tion: 1,324,333; Languages: Estonian; Religions: Evangelical Lutheran, Russian Orthodox, Estonian Orthodox, Baptist, Methodist, Seventh-Day Adventist, Roman Catholic, Pentecostal, Word of Life, Jewish; Literacy: 99.8%; Life Expectancy: 72.04; Currency: Kroon (\$1 = 12.379); p.c.i: \$ 16,700; Date of Independence: 20th August, 1991.

Government Type: Parliamentary Republic; **Head of State:** Arnold Ruutel; **PM:** Andrus Ansip.

History: Estonia seceded from Soviet Union and attained independence in August, 1991, 50 years after the three Baltic states were annexed by Stalin's USSR. The first free elections in over 50 years were held in Sept. '92. Estonia is bounded west and north by the Baltic, east by Russia and south by Latvia.

Economy: Agriculture and dairy farming are the major occupations. Some 22% of the territory is covered by forests, which provide fuel and raw material for Industries. Agricultural products: Grain, potatoes, vegetables, dairy products. Natural resources: Shale deposits, timber, peat, phosphorites. Industry: Ship-building, furniture, match & pulp, leather, garments, agricultural machinery, electric motors.

Recent Events: Estonia joined EU in 2004.

Mission in India: Honorary Consulate General of the Republic of Estonia, A-11, Kailash Colony, First Floor, New Delhi-110 048; Tel: 26449808; Fax: 256484575.

59. Ethiopia

(Federal Democratic Republic of Ethiopia)/Ye Etyop'iya Hezbawi Dimokrasiyawi Republika

Capital: Addis Ababa; **Other Large Cities:** Gondar, Dire Dawa; **Area:** 1,221,900 sq.km; **Population:** 74,777,981; **Languages:** Amharic, Oromigna, Tigrigna and 60 other small languages; **Religions:** Muslim-45%-50 %, Ethiopian Orthodox-35%-40%, Animist 12%, others-3-8%; **Literacy:** 42.7%; **Life Expectancy:** 49.03; **Currency:** Birr (\$1=8.737); **p.c.i:** \$900.



Government Type: Federal Republic; **President:** Girma Woldegiorgis; **PM:** Meles Zenawi.

History: Black Africa's oldest state formerly known as Abyssinia. A mountainous country in north-east Africa, it has a colourful history. The Ethiopian emperors claimed descent from King Solomon and the famous Queen of Sheba. The last Emperor of Ethiopia Haile Sellasie I was deposed by armed marxist forces which took over the govt. in 1974. Opposition to this government mounted in 1991 and marxist leader Mengistu Haile Mariam had to flee the country. A new government consisting of various groups was formed by the Ethiopian Revolutionary Democratic Front, an umbrella group of six rebel armies. Eritrea, a province on the Red Sea, declared its independence in 1993.

May, 1995 saw the birth of a new Federal Democratic Republic of Ethiopia after four years of transitional rule. The new constitution divides Ethiopia into nine ethnically distinct regions, which have the right to through a popular referendum.

There was an undeclared war between Ethiopia and Eritrea (May-June, 1998) over an area on the border between the two. Efforts by OAU didn't yield much. Fighting resumed in 1999 and 2000. Thousands died on both sides. In Dec. the two countries formally ended the war, with an accord signed in Algiers, but tensions continued.

Economy: Ethiopia's economy is based on agriculture, which accounts for half of GDP, 85% of exports, and 80% of total employment. The agricultural sector suffers from frequent drought and poor cultivation practices; and as many as 4.6 million people need food assistance annually. Coffee is the most important export. Other important exports include qat, live animals, hides, and gold.

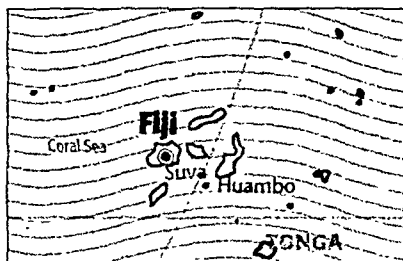
Recent Events: In May, 2006, six political parties and armed groups formed an opposition alliance, the Alliance for Freedom and Democracy, at a meeting in the Netherlands. Several bomb blasts hit Addis Ababa.

Mission in India: Embassy of the Federal Democratic Republic of Ethiopia, 7/50-G, Satya Marg, Chanakyapuri, New Delhi-110021. Tel: 26119513, 26119514; Fax: 26875731.

E-mail: delethem@yahoo.com

Indian Mission in Ethiopia: Embassy of India, Kabena (Aware District) W-13, K-15, H.No. 224, Post Box 528, Addis Ababa, Ethiopia. Tel: 00-251-1-552100, 550694, 556610, 556611; Fax: 00-251-1-552521, 552305.

E-mail: indembassy@telecom.net.et



=1.75); p.c.i: \$ 6,000 ; Date of Independence: 10th October, 1970.

Government Type: Republic; **President:** Ratu Josefa Iloilo Vatu; **PM:** Laisenia Qarase.

Fiji consists of 332 islands and islets in west-em S. Pacific, lying 1750 km. north of New Zealand. The largest of the islands Viti Levu constituting more than half of the total land area of Fiji islands is the seat of the government. Fiji lies on the main route between Australia, New Zealand and North America and is the centre of communications in the South West Pacific.

History: These islands came under British rule in 1874. From 1879, indentured Indian labour was imported into the islands to work on European sugar plantations. Practically all the Indian workers settled permanently in the islands. Their descendants now form about half of the population. Melanesians, the original inhabitants, make up 43 per cent, the rest being made up of Europeans, Chinese and others. On Oct. 10, 1970 Britain granted independence to Fiji.

Economy: Fiji is a famous tourist centre with 3,00,000 to 4,00,000 tourists annually. Its major products are agricultural. Sugar and coconuts form 90 per cent of the total exports. Rice and ginger are grown too. Mining is limited and industries are (sugar refining, light industry and tourism) growing. Gold is mined on Viti Levu, and is another major export.

In October 1987 military strongman Col. Sitiveni Rabuka declared Fiji a republic defy-

60. Fiji

(Republic of the Fiji Islands)

Capital: Suva; **Other Large Cities:** Lautoka, Nadi; **Area:** 18,376 sq.km; **Population:** 905,949; **Languages:** English, Fijian and Hindi; **Religions:** Christian-52% (Methodist-37%, Roman Catholic-9%), Hindu-38%, Muslim-8%, others-2%; **Literacy:** 93.7%; **Life Expectancy:** 69.82; **Currency:** Dollar (\$1

ing popularly elected government headed by Dr. Thimoci Bavadra, leader of the majority Indian ethnic group. A civilian government was restored to power in December.

A new constitution favouring indigenous Fijians was issued in July, 1990. In the 70-member Parliament, there were 27 seats for Indians. The posts of President and PM were reserved for indigenous Fijians.

Labour Party leader Mahendra Chaudhry, the first ethnic Indian to hold the post, became PM in June '99.

On May 19, 2000 George Speight, a local businessman, took most of the cabinet hostage. He favoured dominance of indigenous Fijians. Two months of political unrest ended in July with the formation of a new government. Speight was imprisoned. The deposed PM Chaudhry was freed in July after 55 days of captivity. Indians were offered 14 cabinet posts in 2003.

Recent Events: In March 2006, Great Council of Chiefs elected incumbent president Iloilo to a second, five-year term. In May, former PM Sitiveni Rabuka was charged with orchestrating a failed army mutiny in November 2000. Ruling party leader and incumbent Prime Minister Lae Senia Qarase narrowly won elections and was sworn in for a second term.

Indian Mission in Fiji: High Commission of India, Level 7, LIC Building, Butt. Street, P.O. Box 471, Suva, Fiji Islands. Tel: 00-679-301125; Fax: 00-679-301032.

E-mail: hicomindsuva@is.com.fj

61. Finland

(Republic of Finland)/Suomen Tasavalta
Capital: Helsinki; **Other Large Cities:** Tampere, Espoo; **Area:** 338,000 sq.km.; **Population:** 5,231,372; **Languages:** Finnish and Swedish; **Religions:** Lutheran National Church-84.2%, Greek Orthodox in Finland-1.1%, other Christian-1.1%, others-0.1%, None-13.5%; **Lit-**



eracy: 100%; **Life Expectancy:** 78.5; **Currency:** Euro (\$1 = 0.79); **p.c.i:** \$ 30,900; **Date of Independence:** 6th December, 1917.

Government Type: Republic; **President:** Ms. Tarja Halonen; **PM:** Matti Vanhanen.

History: The Republic of Finland is a Baltic State, which once formed part of the Russian Empire. It became independent on Dec. 6, 1917 and a republic in 1919.

Off the south-west coast are the Swedish-populated, autonomous Aland islands, controlling the entrance to the Gulf of Bothnia. Finland has more than 20,000 lakes. 62% of the population live in urban areas.

Economy: The most important rural activity is forestry. Finland's vast forests of pine, spruce, and birch support a number of major industries. The extensive pulp and paper sector is responsible for around one-quarter of world paper exports. Other industries are shipbuilding, metals, machinery, textiles, leather and chemicals. Finland was among the first countries to deregulate its telecommunications industry and is now the world's most connected country. Finland now has the highest per capita number of internet connections. Finland has a fairly big fleet of merchant marine. Chief agricultural crops are grains, potatoes and dairy products. With the help of investments in export industries and hi-tech, exports as a share of GDP climbed to 40% in the ten years to 200*. joined the EU on Jan. 1, 1995.

Mission in India: Embassy of Finland

Nyaya Marg, Chanakyapuri, New Delhi - 110021. Tel: 51497500; Fax: 51497555

E-mail: sanomat.nde@formin.fi

Consulate: Mumbai, Tel: 22165277, Fax: 22164213,

E-mail: ram tarneja@bsbmumbai.org;

Calcutta: Tel: 22474328, 2247 1950, Fax: 22474329.

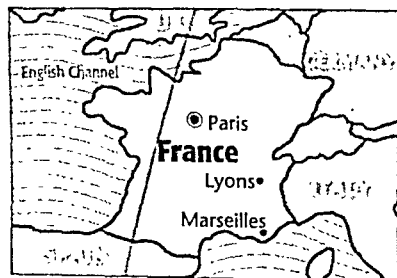
E-mail: mpc@cal.vsnl.net.in; **Chennai:** Tel: 28524141, Fax: 28521253.

E-mail: siva holdings@vsnl.net

Indian Mission in Finland: Embassy of India, Satamakatu 2 A 8, 00160, Helsinki, Finland. Tel: 00-358-9-608927, 608935; Fax: 00-358-9-6221208.

62. France

(French Republic)/Republique Francaise



Capital: Paris; **Other Large Cities:** Marseilles, Lyons, Strasbourg; **Area:** 543,965 sq.km; **Population:** 60,876,136; **Languages:** French and regional dialects; **Religions:** Roman Catholic-83%-88%, Protestant-2%, Jewish 1%, Muslim-5%-10%, Unaffiliated-4%; **Literacy:** 99%; **Life Expectancy:** 79.73; **Currency:** Euro (\$1=0.79); **p.c.i:** \$ 29,900; **Date of Independence:** 486 (Unification by Clovis).

Government Type: Republic; **President:** Jacques Chirac. **PM:** Dominique de Villepin.

History: France, the largest country in western Europe, lies between three big nations—Spain, Germany and Italy. The island of Corsica—the birthplace of Napoleon—forms an

integral part of France. The French Revolution (1789-1793) made France, once a grand monarchy, a republic. Since then republican and imperial forms of government followed one after another until the Fifth Republic. The French Community came into being in 1958 under President Charles de Gaulle. France is a member of the European Union.

Economy: The country is the largest food producer and exporter in Western Europe. Main crops: Grains, maize, rice, fruits, vegetables, wine, potatoes, livestock and dairy products. Among manufactured products, the most important are chemicals, silk, cotton textiles, automobiles, aircraft, ships, precision instruments, electronic equipment, perfumes and wines. Over the last 20 years urban development and technological progress have changed the people's everyday life profoundly. **Life expectancy:** Male 75, Female: 83.

France is the world's fourth-largest industrial power and has many globally important companies. Danone, for example, is the world's largest dairy products firm, and two major car companies, Peugeot-Citroen and Renault, account for one-eighth of France's exports. Another distinctive export has been the high-speed train, the TGV.

France exploded a nuclear device at Mururoa atoll (First tests in 1966) on Sept. 6, 1995. In January 96, France announced the end of the series of tests.

Violence by Corsican separatists has been worrying successive governments for a quarter century.

France which had 75.5 m. foreign visitors in 2000, reinforced its position as the world's most visited country. The Eiffel Tower, France's most visited monument, has 15,000 tourists daily.

Overseas Departments: French Guiana, Guadeloupe, Martinique, Reunion.

Overseas Territories: French Polynesia, French Southern and Antarctic Lands, New Caledonia and dependencies, Wallis and Futuna Islands. Overseas departments elect

representatives to the National Assembly and the administrative organisation of mainland France applies to them. The administrative organisation of overseas territories includes a locally elected government.

Territorial collectivities: St. Pierre and Miquelon; Mayotte.

Recent Events: In March-April 2006, new youth employment laws sparked mass demonstrations in Paris and other cities across France. As protest continued, the legislation was scrapped. In June, Upper house of parliament passed a bill setting tough new restrictions on immigration. The rules made it harder for low-skilled migrants to settle. France were the runner-up in the 2006 FIFA World Cup Soccer tournament. In the 110th minute of the World Cup final against Italy, French player Zidane was sent off for headbutting Marco Materazzi in the chest in an off-the-ball incident after the two players had exchanged words. Despite the subsequent controversy over his offence in the final, Zidane was awarded the Golden Ball as best player in the 2006 World Cup.

Mission in India: Embassy of France, 2/50-E, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 26118790; Fax: 2687 2305.

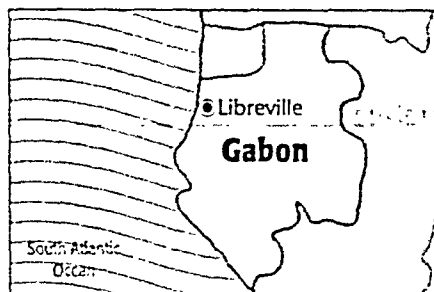
Consulate General of France: Hoechst House, 7th Floor, Nariman Point (next to NCPA), Mumbai-400 021. Ph: 0091-22-56694000; Web: www.consulfrance-bombay.org.

Indian Mission in France: Embassy of India, 15, Rue Alfred Dehodencq, 75016 Paris, France. Tel: 00-33-1-40507070, 45243340; Fax: 00-33-1-40500996.

E-mail: ambassador2@wanadoo.fr

63. Gabon

(Gabonese Republic) Republique Gabonaise
Capital: Libreville; **Other Large Cities :** Port-Gentil, Masuku; **Area:** 267,667; **Population:** 1,424,906; **Languages:** French and Bantu dia-



lects; Religions: Christian-55%-75%, Animist, Muslim less than 1%; **Literacy:** 63.2%; **Life Expectancy:** 54.49; **Currency:** CFA Franc (\$1=518.98); **p.c.i:** \$6,800; **Date of Independence:** 17th August, 1960.

Government Type: Republic; **President:** Omar Bongo; **PM:** Jean Eyeghe Ndong.

History: The Gabon Republic is situated on the western coast of central Africa. Formerly a province of French Equatorial Africa, Gabon attained independence on Aug. 17, 1960.

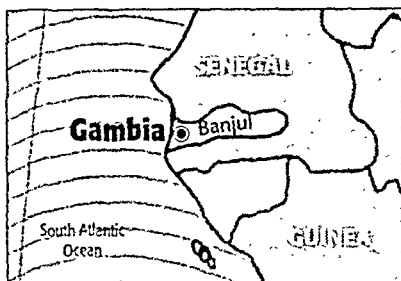
Economy: Gabon is one of the most prosperous black African countries. Most of the country is covered by a dense tropical forest. Chief crops are cocoa, coffee, rice, peanuts, sugarcane. The economy, traditionally dependent on forestry, is now dominated by mining. The manganese deposit at Moanda in the south is one of the world's richest deposits. Crude oil production is already the fifth highest in Africa. Uranium, gold and iron ore are also mined. **Industry:** Processing of food, timber and textiles

Recent Events: • President Omar Bongo who has ruled Gabon for 35 years, has secured a constitutional change that could allow him to be in power indefinitely.

Mission in India: Embassy of Gabon stationed at Tokyo

64. The Gambia

(Republic of The Gambia)
Capital: Banjul; **Other**
 Serrekunda, Farafenni; **Are**



Population: 1,641,564; **Languages:** English and Mandinka, Wolof; **Religions:** Muslim-90%, Christian-9%, Indigenous beliefs-1; **Literacy:** 40.1%; **Life Expectancy:** 54.14; **Currency:** Dalasi (\$1=28.3); **p.c.i:** \$ 1,900; **Date of Independence:** 18th February, 1965

Government Type: Republic; **Head of State & Govt:** Lt. Yahya Jammeh.

The Gambia, the smallest African country, is a narrow strip of land in West Africa, extending inland from the Atlantic Ocean for about 30 miles on either side of the Gambia River and surrounded on three sides by Senegal. Nearly half the inhabitants belong to the Mandingo tribe.

History: Formerly a British colony and protectorate, the Gambia became an independent state within the Commonwealth on Feb. 18, 1965 and a Republic in April 1970.

After a coup attempt in 1981, the Gambia formed the confederation of Senegambia with Senegal. This lasted until 1989.

In July, '94, a military coup ousted President Dawda Jawara, who was in power for 24 years. In Aug. '96, voters approved a constitution paving the way for a return to democracy. The 2-year-old ban on political parties was lifted.

Economy: Peanuts are the main crop, along with rice and palm kernels. Textiles, food and manufactured goods are significant items of import. Tourism is the biggest foreign exchange earner.

Mission In India: Honorary Consulate General of the Republic of Gambia. B-11. May

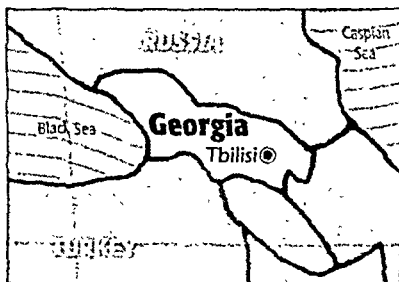
Fair Garderns, New Delhi-110 016; Tel: 26860285; Fax: 91-24532503.

E-mail: kvachani@hotmail.com

65. Georgia

(Republic of Georgia)/Sakaratvelos Respublica

Capital: Tbilisi (Tiflis); **Other Large Cities:** Kutaisi, Batumi; **Area:** 69,700 sq.km; **Popula-**



tion: 4,661,473; **Languages:** Georgian, Russian; **Religions:** Georgian orthodox-65%, Muslim-11%, Russian Orthodox-10%, Armenian Apostolic-8%, Unknown-6%; **Literacy:** 100%; **Life Expectancy:** 76.09; **Currency:** The Lari (\$1=1.77); **p.c.i:** \$3,300; **Date of Independence:** 9th April, 1991

Government Type: Republic; **President:** Mikhail Saakashvili; **PM:** Zurab Noghaidei.

History: Georgia, a former Soviet republic that became independent in Dec., 1991, is bordered by the Black Sea, Turkey, Armenia and Azerbaijan.

Georgia has a fine climate and is known for its natural wealth, variety and beauty. It has the largest manganese mines in the world.

Georgia includes the Autonomous Republics of Abkhazia and Adjara and the former Autonomous Region of South Ossetia.

Economy: Agriculture: Tea, citrus fruits, grapes, grain, vegetables, potatoes; silk, tobacco, bamboo, eucalyptus. **Natural resources:** Manganese, coal, baryta, oil, marble, iron. **Industry:** Food processing, tea, brew-

ery, textile, chemical fibres, paper and metallurgy.

Georgia was admitted to the UN as the 179th member in July, 1992 – the last of the former Soviet republics to join the world organisation. It joined the Commonwealth of Independent States (CIS) early 1994. In Feb. '94, Georgia signed agreements with Russia for economic and military cooperation. Fighting between government forces and Abkhazian separatists was intense in 1993. In May '94, ceasefire agreement was signed.

Mission in India: Honorary Consulate of Georgia, 19 DDA, Community Centre, Zamrudpur, Kailash colony Ext., New Delhi-110 048; Tel: 26431015; Fax: 26447864.

E-mail: georgiaconsulate@rediffmail.com

66. Germany

(Federal Republic of Germany) Bundesrepublik Deutschland



Capital: Berlin; Other Large Cities : Hamburg, Munich, Cologne, Frankfurt, Leipzig; Area: 357,020 sq.km.; Population: 82,422,299; Languages: German; Religions: Protestant-34%, Roman Catholic-34%, Muslim-3.7%, unaffiliated or others-28.3%; Literacy: 99%; Life Expectancy: 78.8; Currency: Euro (\$1=0.79); p.c.i: \$ 30,400; Date of Independence: 3rd October, 1990 (date of unification of West Germany and East Germany)

Government Type: Federal Republic; Presi-

dent: Horst Koehler; Head of Govt: Chancellor Angela Merkel.

The Federal Republic of Germany in Central Europe (United Germany of East and West) covers an area of 357,020 sq km made up of mountain areas, uplands and plains. To the north the country is bounded by the North Sea and the Baltic, to the south by the Alps, Lake Constance and the Rhine, which also forms the border in the south-west. The main rivers are the Rhine, the Danube, the Elbe, the Weser and the Moselle. The highest mountain is the Zugspitze (2,963 m.) in the Alps. The uplands rise to 1,500 m.

History: Germany since 1871 had been a nation united in one country of numerous states which had a common language and traditions. Since World War II, until 1990, it had been split in two parts: Federal Republic of Germany (West Germany) and German Democratic Republic (East Germany). The merger of the two Germanys took place on Oct. 3, 1990 and the first all-German elections since 1937 were held on Dec. 2, 1990.

Germany is a democratic, parliamentary state with a federal constitution. The Federal Republic is made up of 16 Lander (States). The Bundestag (Federal Diet) is the supreme legislative body. With the addition of 144 members of the East German Volkskammer, the total membership rose to 663 in 1990.

Economy: Of the land 48% is used for agriculture and 29% is wooded. Chief crops: Grains, potatoes, sugar beets. Major mineral resources: Lignite, coal, iron and copper ores and potash. Industry: Steel, ships, hides, machinery, coal and chemicals.

Germany has one of the most generous welfare systems with high unemployment benefits and pensions. This comes at a cost since total deductions shared by employers and workers now amount to more than 40% of pay. Employers are required to meet these costs by increasingly un-

costs are one-third higher than in the USA or the UK. Another notable feature of the German economy and society is a concern for the environment. The country has intensive systems of recycling—around 7,00,000 jobs are linked with environmental protection.

As Europe's largest economy and most populous nation, Germany remains a key member of the continent's economic, political, and defence organisations. In January 2002, Germany and 11 other EU countries introduced a common European currency, the euro. Germany's 7.3 m. legal foreign workers account for about 9 per cent of the population. Germany's ageing population, combined with high unemployment, has pushed social security outlays to a level exceeding contributions from workers.

Recent Events: In July 2006, Parliament approved far-reaching changes to the way in which Germany was governed; the reforms were intended to speed up decision-making. Germany hosted the 2006 FIFA World Cup soccer tournament.

Mission in India: Embassy of the Federal Republic of Germany, No.6/50-G, Chanakya-puri, New Delhi-110 021. Tel: 26871831, Telefax: 26873117.

E-mail:germany@del3.vsnl.net.in germany@vsnl.com

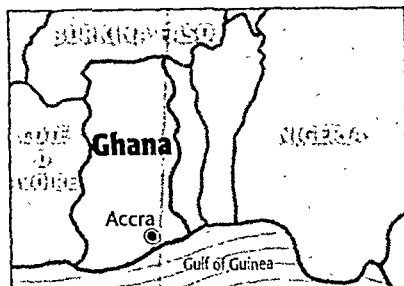
Indian Mission in Germany: Embassy of India, Tiergartenstrasse 17, 10785 Berlin, Germany. Tel:00-49-30-257950, 25705001 (After Office Hour) Fax:00-49-30-25795102 (Chancery).

E-mail:chancery@indiaembassy.de

67. Ghana

(Republic of Ghana)

Capital: Accra; **Other Large Cities :** Kumasi, Takoradi; **Area:** 238,537 sq. km; **Population:** 22,409,572; **Languages:** English (official language) and eight major national languages; **Religions:** Christian, 63%; Muslim, 16%;



enous beliefs-21%; **Literacy:** 74.8%; **Life Expectancy:** 58.87; **Currency:** Cedi (\$1=9142); **p.c.i.:** \$ 2,500; **Date of Independence:** 6th March, 1957.

Government Type: Republic; **President (Head of State & Govt):** John Kufour; **Vice President:** Alhaji Aliu Mahama.

A country tucked between Togo and Cote D'Ivoire on the southern coast of West Africa, Ghana is composed of the former British colony Gold Coast and the British-ruled Togoland.

History: Independence came on March 6, 1957. Republic status within the Commonwealth was attained on July 1, 1960. Dr. Kwame Nkrumah was the first President. Coups occurred in 1966, 1972, 1978, 1979 and 1981. A new pluralistic democratic constitution was approved in 1992.

Economy: Ghana is primarily an agricultural country which held position as world's leading producer of cocoa for long. Other crops: kolanuts, palm products, bananas, coffee, maize and rubber. **Exports:** Timber, gold, diamonds, manganese, bauxite and cocoa. **Industry:** Aluminium and light industry.

Recent Events : John Kufuor (in power since 2001) is the first democratically elected president since independence. Falling prices of cocoa and rising cost of imported oil have hit Ghanaian economy hard.

Mission in India: Ghana High Commission, 50-N, Satya Marg, Chanakya-puri, New Delhi-110021. Tel: 26883315, 26883298, 26883338; Telefax: 26883202.

Indian Mission in Ghana: High Commission of India, No.9, Ridge Road, Roman Ridge, P.O. Box CT-5708, Accra, Ghana. Tel: 00-233-21-775601, 775602; Fax: 00-233-21-772176.

E-mail- indiahc@ncs.com.gh

68. Greece

(Hellenic Republic) Elliniki Dimokratia



Capital: Athens; **Other Large Cities :** Thessaloniki, Salonika, Larissa; **Area:** 131,990 sq.km; **Population:** 10,688,058; **Languages:** Greek; **Religions:** Greek Orthodox (Christian)-98%, Muslim-1.3%, others-0.7%; **Literacy:** 97.5%; **Life Expectancy:** 79.24; **Currency:** Euro (\$1= 0.79); **p.c.i:** \$ 22,200 ; **Date of Independence:** 1829.

Government Type: Parliamentary Republic; **President:** Karolos Papoulias; **PM:** Konstandinos Karamanlis.

History: Greece or the Hellenic Republic, on the Mediterranean Sea, occupies the southern end of the Balkan Peninsula in south-east Europe. Ancient Greece's achievements in art, architecture, science, mathematics, philosophy, drama, literature and democracy were unparalleled. The country reached the peak of its glory in the 5th century B.C.

Politically independent till the 1st century B.C., the Greeks succumbed to Roman might in the latter half of that century. Later they came under Byzantine and Ottoman empires. In 1830, Greece regained its freedom as a

monarchic state. After many vicissitudes of fortune, monarchy was abolished in 1974, since then Greece has been a republic. Greece is a member of the European Union.

Numerous islands constitute about one-fifth of total area, of which the largest is Crete.

Tensions between Greece and the Former Yugoslav Republic of Macedonia eased in Sept. 1995 with their agreeing to normalise relations.

Economy: Greece, though till recently an agricultural country, has now developed industrially. In merchant shipping, Greece owns a surprisingly big tonnage. Tourism is Greece's biggest industry. Others: Textiles, chemicals, metals, wine, food processing, cement. **Chief crops:** Wheat, sugar beet, grapes, other fruits, milk, olive oil, cotton.

Recent Events: In March 2006, public sector workers staged 24-hour strike in support of demand for pay increase and in protest at government plans to scrap job security laws and intensify privatisation programme. In May, Greek and Turkish fighter planes crashed into Aegean after colliding in mid-air.

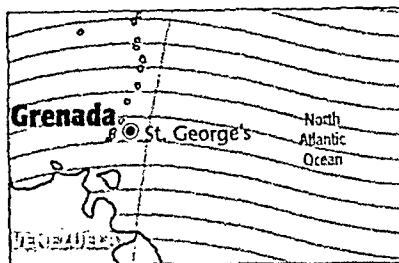
Mission in India: Embassy of Greece, EP-32, Dr.S.Radhakrishnan Marg, Chanakyapuri, New Delhi-110021. Tel: 26880700, Telefax: 26888010; E-mail:hellemb@eth.net; Web : www.greeceinindia.com

Indian Mission In Greece: Embassy of India, 3, Kleanthous Street, 10674 Athens, Greece. Tel: 00-30-1-7216227, 7216481, Fax: 00-30-1-7211252.

E-mail:indembassy@ath.forthnet.gr

69. Grenada

Capital: St. George's; **Area:** 344 sq.km; **Population:** 89,703; **Languages:** English and French-African patois; **Religions:** Roman Catholic-53%, Anglican-13.8%, Protestant-33.2%; **Literacy:** 96%; **Life Expectancy:** 73.2; **Currency:** East Caribbean Dollar (\$ p.c.i: \$ 5,000 ; **Date of Independence:** February, 1974



Government Type: Parliamentary Democracy; **Gov.Gen.:** Daniel Williams; **PM:** Keith Mitchell.

History: Grenada is an island country in the West Indies. It is the most southerly island of the Windward Islands chain and includes Southern Grenadines (islands), the largest of which is Carriacou. Grenada became independent in 1974.

The population is of mixed origin: European, Negro and Carib Indians.

Economy: Tourism is a growing industry (380,000 visitors in 1998-99) but agriculture dominates the economy. Grenada is known as the 'Spice Island' and is the world leader in the production of nutmeg and mace. Other major agricultural products are cocoa, bananas and tropical fruit and vegetables.

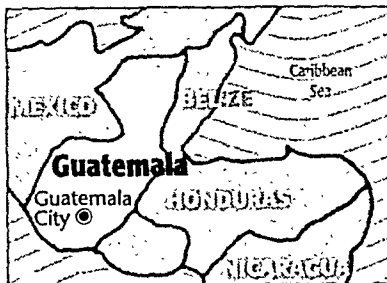
Mission in India: Honorary Consulate of Grenada, 12, Sunder Nagar, New Delhi-110 003. Tel: 24354512; Fax: 23328307.

E-mail: skkandhari@vsnl.net

70. Guatemala

(Republic of Guatemala) Republica de Guatemala

Capital: Guatemala City; **Other Large Cities:** Escuintla, Puerto Barrios; **Area:** 108,889 sq.km; **Population:** 12,293,545; **Languages:** Spanish and Indian dialects; **Religions:** Roman Catholic, Protestant, Indigenous Mayan beliefs; **Literacy:** 70.6%; **Life Expectancy:** 69.38; **Currency:** Quetzal (\$1=7.62); **p.c.i:** \$ 4,700; **Date**



Government Type: Republic; **President:** Oscar Jose Rafael Bertger Perdomo.

History: Guatemala, a republic, is the northernmost and the third largest of the five central American states and has the largest population. Fifty per cent of the population is of Indian (Red) origin, 45 per cent Ladino or of mixed European and Indian parentage. The Indians are the descendants of the builders of the great Maya civilisation which was wiped out by the Spanish conquistadors.

After remaining as a Spanish colony for about three centuries (1524-1821), Guatemala became a republic in 1839. Guatemala's claims to British Honduras (Belize) led to the rupture of diplomatic relations with Britain in 1963. More than 100,000 people have been killed in civil wars since 1961.

Economy: The soil is very fertile. Agriculture is the most important occupation. Principal crop is coffee. Other important export items are bananas, cotton, gum, sugar, maize, tobacco, fruits and beef. **Industry:** Food and beverages, textiles, tyres, construction materials, tobacco and chemicals.

Indian Mission in Guatemala: Honorary Consulate of India, P.O. Box No. 886, 14 Calle 14-84 zona 10, Oakland, Ciudad de Guatemala, Guatemala. Tel: 00-502-3682271; Fax: 00-502-3664049.

71. Guinea

(Republic of Guinea) Republique de Guinée



ankan, Kindia; Area: 245,857 sq.km; Population: 9,690,222; Languages: French and 8 national languages; Religions: Muslim-85%, Christian-8%, indigenous beliefs-7%; Literacy: 35.9% (in French); Life Expectancy: 49.7; Currency: Franc (\$1=4600); p.c.i: \$ 2,000; Date of Independence: 2nd October, 1958.

Government Type: Republic; President: Gen. Lansana Conte. PM: Cellou Dalein Diallo.

History: Guinea is a former French overseas territory on the Atlantic coast of West Africa.

Under the constitution of the Fifth (French) Republic, Guinea voted for secession and proclaimed itself an independent republic on October 2, 1958. The first President was Sekou Toure. The army mutiny of Feb. 1996 was suppressed by President Conte.

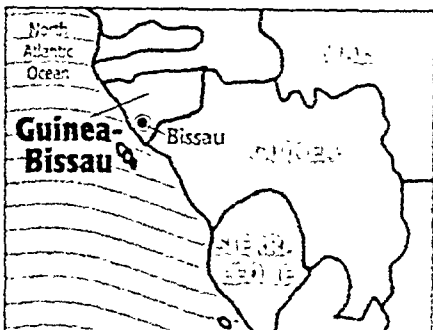
Economy: Subsistence agriculture supports 80% of the population. Main crops are cassava, plantains, sugarcane, bananas and palm kernels. It exports coffee, honey, bananas, palm kernels, iron and aluminium ore. Guinea has probably the world's largest deposit of bauxite.

Ten per cent of Guinea's population is composed of refugees from neighbouring Sierra Leone and Liberia. This is a burden on the weak economy.

Mission in India: Embassy of Guinea stationed at Moscow.

72. Guinea-Bissau

(Republic of Guinea-Bissau) República da Guiné-Bissau



Capital: Bissau; Area: 36,125 sq.km; Population: 1,442,029; Languages: Crioulo, Portuguese and tribal languages; Religions: indigenous beliefs-50%, Muslim-45%, Christian-5%; Literacy: 42.4%; Life Expectancy: 46.87; Currency: CFA Franc (\$1=518.98); p.c.i: \$ 680; Date of Independence: 24th September, 1973.

Government Type: Republic; President: Joao Bernardo 'Nino' Vieira; PM: Aristides Gomes.

History: Guinea-Bissau, formerly Portuguese Guinea, is on the Atlantic coast of West Africa. The land is part plain and part plateau.

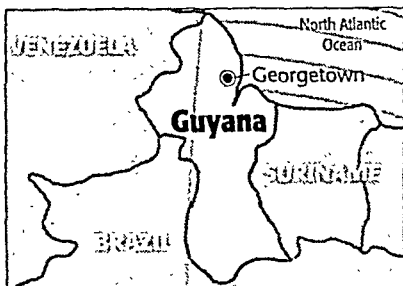
Guinea-Bissau unilaterally declared independence in 1973. Portugal recognised its independence in 1974. Joao Bernardo Vieira who seized power in 1980, was elected in 1989 and re-elected in 1994. A civil war was triggered by an army uprising in June, 1998 and Vieira was toppled. There was a military coup in 2003.

In May '97, Guinea-Bissau joined the French Franc Zone.

Economy: The main occupation is agriculture. Swamp rice (grown in the coastal plains), coconuts, cassava, sweet potatoes and maize form the important crops. The cash crops are groundnuts and palm oil. Cattle raising is a subsidiary. Food processing, beer

73. Guyana

(Co-operative Republic of Guyana)



Capital: Georgetown; Other Large Cities: Linden, New Amsterdam; Area: 214,969 sq.km; Population: 767,245; Languages: English, Hindi, Urdu, Creole; Religions: Christian-50%, Hindu-35%, Muslim-10%, others-5%; Literacy: 98.8%; Life Expectancy: 65.86; Currency: Guyanese Dollar (\$1=190); p.c.i: \$4,600; Date of Independence: 26th May, 1966.

Government Type: Republic; President: Bharrat Jagdeo. PM: Samuel Hinds

Guyana (former British Guiana) lies on the north east coast of South America.

History: Guyana became a British colony in 1814 and an independent sovereign state within the Commonwealth of Nations on May 26, 1966. The President is an ethnic Indian.

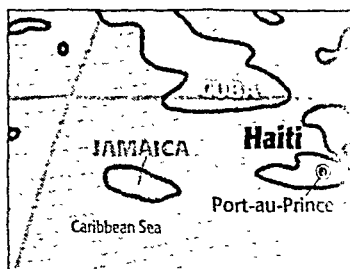
Economy: The economy is based on agriculture. (Sugarcane, rice, coconuts and citrus). Sugar, rice and bauxite are the main exports. There are considerable deposits of gold and diamonds. Dense tropical forests cover much of the land. Industry: Mining and textiles.

Indian Mission in Guyana: High Commission of India, 10, Avenue of the Republic, Bank of Baroda Building, Post Box 101148, Georgetown, Guyana. Tel: 00-592-22-63996, 68965, 63240; Fax: 00-592-22-57012.

E-mail: hicomind@guyana.net.gy / com@guyana.net.gy

74. Haiti

(Republic of Haiti) Republique d' Haiti



Capital: Port-au-Prince; Area: 27,750 Population: 8,308,504; Languages: (official), and Creole; Religions: Roman Catholic-80%, Protestant-16%, none-1%, 3%; Literacy: 52.9%; Life Expectancy: 52.9%; Currency: Gourde (\$1=38.65); p.c.i: 100; Date of Independence: 1st January, 1804.

Government Type: Elected Government; President: René Prévost; Jacques Alexis.

History: Haiti known as Hispaniola between Cuba on the east. Negr population, descended from slaves. Till an independent

A 28-year civil war ended had been Bertrand. Dec. 1990 exiled in S wide oil, in June, 1991 was rest peacekeeper for Haiti power to Feb. '96. 2000.

Economy: Chief agricultural products: Coffee, sugar, bananas, rice, cocoa, tobacco, sisal and cotton. Industry: Sugar refining, textiles and cement. Rum and other spirits are distilled from molasses and exported. Bauxite is the chief mineral exported. Tourism is Haiti's second largest source of foreign exchange. Two-thirds of Haiti's inhabitants live in poverty, half of all adults are illiterate and less than a quarter of rural children attend primary school. Infant and maternal mortality rates remain among the highest in the world.

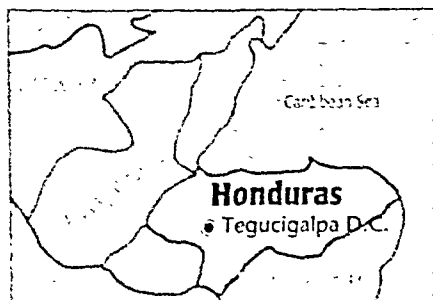
Outside Africa, Haiti has the highest rate of HIV infection among adults: 5 percent. It produces more new cases of HIV-AIDS each year than the entire U.S.

Recent Events: Haiti went to polls in February 2006, the first since former president Aristide was overthrown in 2004. Rene Preval was declared the winner of the presidential vote after a deal was reached over spoiled ballot papers.

Indian Mission in Haiti: Honorary Consulate of India, C/o. Hnadal & Fils, 199, Rue Du Magasin de L'Etat, P.O.Box No.633, Port-au-Prince (Republic of Haiti). Tel: 00-(509) 222310; Fax: 00-(509) 238489.

75. Honduras

(Republic of Honduras) Republic de Honduras



Capital: Tegucigalpa D.C.; **Area:** 112,088 sq.km; **Population:** 7,326,496; **Languages:**

Spanish and some Indian dialects; **Religions:** Roman Catholic-97%, Protestant-3%; **Literacy:** 76.2%; **Life Expectancy:** 69.33; **Currency:** Lempira (\$1=18.89); **p.c.i:** \$ 2,900; **Date of Independence:** 15th September, 1821.

Government Type: Republic; **President:** Manuel Zelaya Rosales.

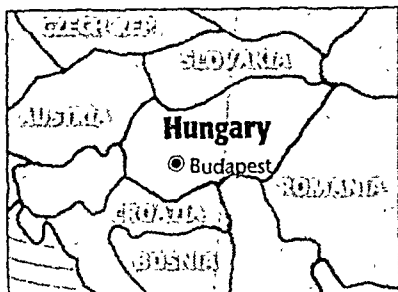
History: Honduras is a republic of Central America lying between Nicaragua, El Salvador and Guatemala. It has a long northern coastline on the Caribbean and a narrow southern outlet to the Pacific. Originally a Spanish colony, Honduras became independent in 1821. The country has gone through a series of dictatorships, military juntas, coups and counter-coups.

Economy: Honduras is one of the poorest countries in the western hemisphere. The chief crop is bananas which constitute 65 per cent of the country's exports. Coffee, cotton, maize and tobacco are also grown. Timber is abundant and cattle raising is a major occupation. Industry: Textiles, wood products, cigars, beer and cement.

Recent Events: In April 2006, free trade deal with the US came into effect. The Honduras Congress approved the Central American Free Trade Agreement (Cafta) in March 2006. Honduras and neighbouring El Salvador inaugurated their newly-defined border. The countries had fought over the disputed frontier in 1969.

76. Hungary

(Republic of Hungary) Magyar Koztarsasag
Capital: Budapest; **Other Large Cities:** Miskolc, Debrecen; **Area:** 93,033 sq.km, **Population:** 9,981,334; **Languages:** Hungarian (Magyar); **Religions:** Roman Catholic-67.5%, Calvinist-20%, Lutheran-5%, atheist and others-7.5%; **Literacy:** 99.4%; **Life Expectancy:** 72; **Currency:** Forint (\$1=217.014); **p.c.i:** \$ 2,900; **Date of Independence:** 1001 (Date of coronation by King Stephen I).



Government Type: Parliamentary Democracy; **President:** Laszlo Solyom; **PM:** Ferenc Gyurcsany.

Hungary is situated in East Central Europe. The eastern half of Hungary is mainly a great fertile plain, 'the Great Plain'. The west and the north are hilly.

History: Hungary had a stormy history being successively overrun by Huns, Magyars, Turks, Hungarians and Austrians. Hungary became an independent republic in 1918 and the Hungarian Socialist Republic in 1919. In 1990, Hungary embraced democracy and market economy. The last Soviet troops left Hungary in June, 1991. In July '97, NATO invited Hungary to become a full member of the alliance within two years. The country joined NATO in March '99.

Economy: Although an agricultural country in the past, since the Second World War industry has come to account for more than half of its total economy. Hungary exports engineering products, machine tools, motor vehicles and electrical and electronic goods. Chief imports are iron ore, coal, crude oil and consumer goods. More than 97 per cent of agricultural land is collectivised. Vineyards occupy around 186,000 hectares. Other crops: Grains, sunflowers, potatoes and sugar beets.

Recent Events: In April 2006, over 10,000 troops and police were deployed to battle flooding as river Danube reached record levels.

Mission in India: Embassy of the Republic of Hungary, 2/50 M, Niti Marg, Chanakya-

puri, New Delhi-110021. Tel: 2611473
Telefax: 26886742.

E-mail: huembde12@vsnl.com

Indian Mission in Hungary: Embassy of India, Buzavirag utca 14, 1025 Budapest, Hungary. Tel: 00-36-1-3257742, 3257743; Fax: 00-36-1-3257745.

E-mail: chancery@indembassy.hu

Webset: www.chancery@indembassy.hu

77. Iceland

(Republic of Iceland) Lyoveldio Island



Capital: Reykjavik; **Area:** 102,846 sq.km
Population: 299,388; **Languages:** Icelandic
Religions: Evangelical Lutheran-87.1%, Other Protestant -4.1% **Literacy:** 99%; **Life Expectancy:** 80.31; **Currency:** Krona (\$1=75.13)
p.c.i: \$ 35,600; **Date of Independence:** 1 June, 1944.

Government Type: Constitutional Republic; **President:** Olafur Ragnar Grimsson; **Prime Minister:** Geir H. Haarde.

Iceland is an island close to the Arctic Circle in the North Atlantic. The Norwegian Sea on the eastern side of Iceland. The warm Gulf Stream makes the winters mild.

During the short cool summers, there is perpetual daylight for many weeks, making it an island of the Midnight Sun. The island has many geysers and hot springs. Iceland has over 200 volcanoes, many of them still active.

History: The people of Iceland are the descendants of the dare-devil Vikings of North

way. After having been independent till the 13th century it became part of Norway, and then passed under Danish rule. In 1941 the Althing (the world's oldest surviving parliament) voted for complete independence and a republic was formed on June 17, 1944. Iceland's language has maintained its purity for 1000 years.

Economy: Much of the land in Iceland lies uncultivated. Potatoes, turnips and hay are the major crops. Fishing industry is highly developed. Exports: Marine products and aluminium. Iceland taps thermal and hydro power for energy-hungry industries. A \$2 billion hydro-electric system and aluminium smelter to be built by 2008 will double growth from the current unusually low rate of 1.5%.

Mission in India: Embassy of Iceland stationed at London.

Consulates: Consulate General, 'Speedbird House', 41/2 M, Connaught Circus, New Delhi-110 001. Tel: 23417122; Fax: 23416275. E-mail: khemka@13.vsnl.net.in
E-mail: Khemka@de13.vsnl.net.in

Indian Mission in Iceland: Honorary Consul General of India, Solvallygate 48, 101, Reykjavik, Iceland. P.O. Box No. 678, 121 Reykjavik. Tel: 00-354-1-28255; Fax: 00-354-625010.

78. India

(Republic of India)

Capital: New Delhi; **Other Large Cities:** Mumbai, Kolkata, Chennai; **Area:** 3,287,263 sq.km.; **Population:** 1,095,351,995; **Languages:** Hindi (official), English, 18 officially recognised languages; **Religions:** Hindu-81.3%, Muslim-12%, Christian-2.3%, Sikh-1.9%, Other groups including Buddhist, Jain, Parsi-2.5; **Literacy:** 64.8%; **Life Expectancy:** 54.35; **Currency:** Rupee (US \$1 = 46.84); **p.c.i.:** \$ 3,300; **Date of Independence:** 15th August, 1947.

Government Type: Federal Republic; **President:** A.P.J. Abdul Kalam; **PM:** Dr. Manmohan Singh.

For details see Part- Eight, India

79. Indonesia

(Republic of Indonesia) Republik Indonesia



Capital: Jakarta; **Other Large Cities:** Surabaya, Bandung; **Area:** 1,904,569 sq.km; **Population:** 245,452,739; **Languages:** Bahasa Indonesian, Dutch, English, Javanese and other Austronesian languages; **Religions:** Muslim-88%, Protestant-5%, Roman Catholic-3%, Hindu-2%, Buddhist-1%, others-1%; **Literacy:** 87.9%; **Life Expectancy:** 69.87; **Currency:** Rupiah (\$1=9292.50); **p.c.i.:** \$ 3,600; **Date of Independence:** 17th August, 1945.

Government Type: Republic; **Head of State & Govt (President):** Susilo Bambang Yudhoyono.

History: Formerly the Dutch East Indies, the Republic of Indonesia, the biggest Islamic nation, is an archipelago state consisting of about 13,500 (6000 inhabited) islands extending some 5150 km. along the Equator in the Indian and Pacific Oceans.

The largest islands of the archipelago are Sumatra, Java, Kalimantan (Indonesian Borneo), Sulawesi and Irian Java.

The islands were made an integral part of the Netherlands Kingdom in 1922. During World War II, Indonesia was under Japanese military occupation. On Aug. 17, 1945, Indonesia proclaimed independence from Dutch.

After a war of independence, the Netherlands transferred sovereignty to Indonesia on December 27, 1949. A republic was declared August 17, 1950, with Dr. Sukarno as president. Gen. Suharto, head of the army was named President in 1968.

The year 1998 was marked by economic chaos. Gen. Suharto was forced to resign in May. He was succeeded by his vice-president, Bacharuddin Jusuf Habibie. Abdurrahman Wahid, leader of Indonesia's largest Muslim organisation, was elected president in Oct. 20, 1999. He was on a collision course with the House of Representatives since Feb. after two scandals and debate on his impeachment began in May. On July 23, he was dismissed by National Assembly.

Indonesia annexed East Timor in 1976. A referendum (UN called it 'popular consultation') was held in East Timor on Aug. 30, '99. Ninety percent turned out, and the vote was for independence from Indonesia. East Timor slipped into violence and bloodbath. A UN interim administration took command in October. In May, 2002 East Timor became independent. Aceh and Irian Java are two provinces with long-running separatist movements.

Economy: One of the world's richest countries in natural resources, Indonesia has vast supplies of tin, oil and fairly big deposits of bauxite, copper, nickel, gold and silver. Agriculture is the main occupation of the people. Crops include rice, tobacco, coffee, rubber, cassava, maize, pepper, kapok, coconut, palm oil, tea and sugarcane. Forest products are a major source of foreign exchange. Food processing, textiles, paper, cement, automobile & cycle assembly works and chemicals factories have developed. With a foreign debt in excess of \$135 b., Indonesia is one of the largest debtor countries of the world.

Recent Events: In January 2006, an East Timorese report accused Indonesia of widespread atrocities during its 24-year occupa-

tion, holding it responsible for the deaths of more than 1,00,000 people. In February-March, deadly protests at a major US-owned gold and copper mine in Papua province followed attempts to remove illegal prospectors from the site. In May, a powerful earthquake killed thousands of people on the island of Java. In July, a tsunami, triggered by a large undersea earthquake, killed more than 500 people on the island of Java.

Mission in India: Embassy of the Republic of Indonesia, Kautilya Marg, 50-A, Chanakyapuri, New Delhi- 110021. Tel: 26118642-45; Fax: 26874402, 26886763, 26888279 (Visa), 26885460 (comm).

E-mail: iembassy@giasd101.vsnl.net.in

Consulate General of the Republic of Indonesia: 19, Altamount Road, Cumballa Hill, Mumbai-400 026; Ph: 91-22-23868678, 23800940; E-mail: kkrimumb@bom3.vsnl.net.in

Indian Mission in Indonesia: Embassy of India, S-1, Jalan H.R. Rasuna Said, Kuningan, Jakarta Selatan 12950, Indonesia. Tel: 00-62-21-5204150, 5204152, 5204157; Fax: 00-62-21-5204160.

E-mail: meoiijt@indo.net.id/ eolisi@indo.net.id

80. Iran

(Islamic Republic of Iran) Jomhori-e-Islami-e-Iran



Capital: Teheran; **Other Large Cities:** Esfahan,

Mashad; Area: 1,648,000 sq.km; **Population:** 68,688,433; **Languages:** Persian (Farsi), Turk, Kurdish, Arabic; **Religions:** Shi'a Muslim-89%, Sunni Muslim-9%, Zoroastrian, Jewish, Christian and Baha'i-2%; **Literacy:** 79.4%; **Life Expectancy:** 70.26; **Currency:** Rial (\$1=9166.50); **p.c.i:** \$ 8,300; **Date of Independence:** 1st April, 1979.

Government Type: Islamic Republic; **President:** Mahmud Ahmadi-Nejad.

History: Iran, formerly Persia, lies between Caspian Sea and the Persian Gulf and consists of a central plateau surrounded by mountains. A popular revolution of Islamic character swept the long-ruling Shah Mohammed Reza Pahlavi from power and installed a strict clerical leadership under Ayatollah Ruhollah Khomeini, spiritual leader of the Shia Muslim community. An Islamic Republic was proclaimed on April 1, 1979.

Iran is a country of great antiquity, celebrated alike for its culture and military valour.

Economy: Agriculture employs 30% of the labour force. The chief products are wheat, barley, rice, fruits (largest producer of dates), wool and sugar beets. Iran is one of the biggest oil-producing regions in the Middle East. It owns 7.5% of total world oil reserves and 15% of global gas deposits. Emeralds and other gems are found in Khorassan and Kerman. Persian carpets, made on handlooms are famous. Other industries: Textiles, cement, processed foods, steel and copper fabrication.

Recent Events: In January 2006, Iran broke IAEA seals at its Natanz nuclear research facility. In February, IAEA voted to report Iran to the UN Security Council over its nuclear activities. Iran resumed uranium enrichment at Natanz. In March, earthquakes killed scores of people and rendered thousands homeless in Lorestan province. In April, Iran claimed it had succeeded in enriching uranium at its Natanz facility.

Mission in India: Embassy of the Islamic

Republic of Iran, No. 5, Barakhamba Road, New Delhi-110001. Tel: 23329600-02; Fax: 23325493, 23713704 (Armed Forces).

E-mail:iranemin@vsnl.com

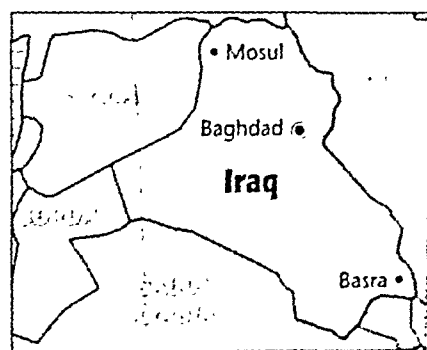
Consulate General of The Islamic Republic of Iran: "Swapnalok", First Floor, 47, Nepean Sea Road, Mumbai-400 026; Ph: 3630073, 3631029

Indian Mission in Iran: Embassy of India, 46, Mir-Emad, Corner of 9th Street, Dr.Beheshti Avenue, P.O. Box No. 15875-4118, Tehran (Islamic Republic of Iran). Tel: 00-98-21-87551034/5; Fax: 00-98-21-8755973, 8745557.

E-mail:indemteh@dpi.net.ir

81. Iraq

(Republic of Iraq) al Jumhoriya al 'Iraqia



Capital: Baghdad; **Other Large Cities:** Basra, Mosul; **Area:** 438,446 sq.km; **Population:** 26,783,383; **Languages:** Arabic (official) and Kurdish; **Religions:** Muslim-97% (Shi'a-60-65%, Sunni-32-37%), Christian and others-3%; **Literacy:** 40.4%; **Life Expectancy:** 69.01; **Currency:** New Iraqi Dinar (\$1=1469.6); **p.c.i:** \$ 3,400 ; **Date of Independence:** 3rd October, 1932.

Government Type: Transitional Government; **Govt.:** The country is under U.S. control; **President:** Jalal Talabani; **P.M.:** N. Maliki.

History: Iraq in the Middle East

from Gaza Strip and Jericho. On Sept. 13, the historic accord between PLO and Israel was signed in Washington for limited Palestinian self-rule in Gaza and West Bank. Israel and Jordan signed (July, '94) a declaration ending 46-year state of war. Israeli-PLO agreement of Aug. '95 expanded Palestinian self-rule in West Bank.

Under an accord of Oct. '98, Israel yielded more West Bank territory to Palestinians in exchange for new security guarantees. In June 1999, Israel announced plans to extend Jerusalem municipal authority over nearby Jewish settlements in the West Bank. Palestinians called it a 'de facto annexation'. In Sept. Israel and Palestinians signed an agreement providing for the implementation of the Wye Memorandum.

On May 25, 2003 Israeli cabinet approved plan for a Palestinian state by 2005 as per the US-backed peace 'road map'. Strong disagreement arose in July between Israel and Palestinian Authority over the number of Palestinian prisoners Israel was prepared to release. Israel went ahead with building the controversial security fence that divides Israel and Palestinian areas. Hamas leader Abu Shanab was killed by Israel. Hope for the road map was shattered. In Set., Israel said it was prepared to 'remove' Arafat.

Israel has developed both agriculture and industry in the little land allotted to it with considerable expertise and efficiency. They have literally made the deserts bloom. Kibbutzim (collective cultivation), irrigation schemes and reclamation of desert-land formed the main feature of agricultural development. Citrus fruits are the main exports. Wine-making is an extensive industry. In diamond-cutting, Israel comes next only to Belgium. Other industries are textiles, electronics, machinery, processed foods and chemicals.

Gaza Strip: Area-363 sq.km; Pop-1,054,200. Agreements between Israel and PLO in 1993 and '94 provided for interim self-

rule in Gaza. Israel is in control of security, while Palestinian Authority is responsible for civil govt. Most inhabitants are Palestinian Arabs.

West Bank: Area- 5,879 sq. km; Pop.-1,557,000. Palestinian Authority administers several major cities, but Israel retains control over much land. In '94, Jericho was given to Palestinian control. Self-rule was expanded in '95. In '97 there was agreement on partial pullout from Hebron.

Recent Events: The centrist Kadima party won a slim majority in elections in March 2006. Israel waged a weeks-long military campaign against Hezbollah guerrillas in Lebanon. Political opponents alleged shortcomings in the conduct of the war. The Prime Minister said the offensive had destroyed much of Hezbollah's weaponry and infrastructure.

Mission in India: Embassy of Israel, 3, Aurangzeb Road, New Delhi-110 011; Tel: 201 3238; Fax: 2301 4298.

E-mail : israellem@vsnl.com

Indian Mission in Israel: Embassy of India, 4, Kaufman Street, Sharbat House, Post Box No. 50095, Tel Aviv 68012, Israel. Tel: 00-972-3-5101431; Fax: 00-972-3-5101434.

E-mail:indemtel@netvision.net.il

84. Italy

(Italian Republic) Repubblica Italiana



Capital: Rome; **Other Large Cities:** Milan, Naples, Turin, Florence; **Area:** 301,278

sq.km.; Population: 58,133,509; Languages: Italian; Religions: Roman Catholic; Literacy: 98.6%; Life Expectancy: 79.81; Currency: Euro (\$1=0.791); p.c.i: \$ 29,200 ; Date of Independence: 17th March, 1861.

Government Type: Republic; **President:** Giorgio Napolitano; **PM:** Romano Prodi.

History: The Italian Republic occupies the long peninsular area in Europe shaped like a boot extending from the Alps into the Mediterranean Sea. The islands of Sicily (off the toe of the boot), Sardinia, Elba and Capri in the Mediterranean belong to Italy.

Mount Etna, an active volcano, rises to 3,274 m. Italy's largest northern lakes are Garda, Maggiore and Como. The main river is the Po.

Italy, once the headquarters of the great Roman Empire, disintegrated into many petty states during the latter Middle Ages. Modern Italy began to develop when King Victor Emmanuel II of Savioa became ruler.

On April 28, 1945 Benito Mussolini, the Fascist dictator, was put to death. Consequent on a referendum on June 2, 1946, Italy voted for a Republic. The king laid down his kingship. Italy is a member of the European Union.

Economy: Since World War II, Italy has revolutionised agricultural production. The chief crops are grapes, wheat, sugarbeet, fruits and vegetables. Italy is among the highly industrialised countries of the world, main products being steel, machinery, electrical, mechanical and electronic gadgets, automobiles, chemicals, cement, textiles and shoes. Italy is world's largest jewellery maker. Tourism is an important source of revenue, providing employment and an influx of foreign currency.

In economic terms, the country's great strength has been in manufacturing. It does have some large multinational companies, notably Fiat (cars) and Olivetti (telecommunications), but manufacturing is dominated by networks of thousands of small firms,

chiefly in clothing, furniture, kitchen equipment, and white goods such as refrigerators and cookers.

Rome celebrated its 2753rd birthday in May, 2000. The colosseum was reopened for public show in July, 2000.

Recent Events: In April 2006, Centre-left leader Romano Prodi won closely-fought general elections. Italy's most-wanted man, suspected head of the Sicilian mafia Bernardo Provenzano, was captured by police. In June, National referendum rejected constitutional reforms intended to boost the powers of the prime minister and regions. Italy won the 2006 FIFA world Cup soccer tournament beating France

Mission in India: Embassy of Italy, 50-E, Chandragupta Marg, Chanakyapuri, New Delhi-110021. Tel: 26114355, 26114359, 26114353; Telefax: 26873889.

E-mail: italemb@de13.vsnl.net.in

Indian Mission in Italy: Embassy of India, Via XX Settembre, 5, 00187, Rome, Italy. Tel: 00-39-06-4884642 to 45; Fax: 00-39-06-4819539.

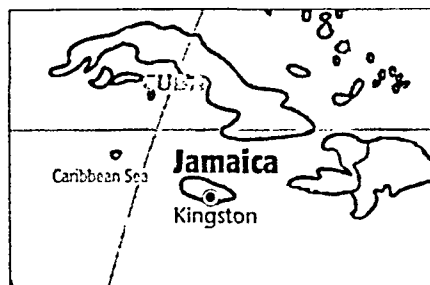
E-mail: ind.emb@flashnet.it

Ivory Coast

(See under Cote D'Ivoire)

85. Jamaica

Capital: Kingston; **Area:** 11,425 sq.km; **Population:** 2,758,124; **Languages:** English and



Jamaican Creole; Religions: Protestant-61.3%, Roman Catholic-4%, others including some spiritual cults-34.7%; Literacy: 87.95%; Life Expectancy: 73.24; Currency: Dollar (\$1=66.946); p.c.i: \$4,400; Date of Independence: 6th August, 1962.

Government Type: Constitutional Parliamentary Democracy; **Gov.Gen.:** Kenneth O. Hall; **PM:** Portia Simpson-Miller.

Jamaica, an island in the Greater Antilles group of the West Indies, is situated in the Caribbean Sea, 144 km south of Cuba.

History: Jamaica was visited by Columbus in 1494 and ruled by Spain till 1655 when Britain occupied it. On August 6, 1962 Jamaica became fully independent and a member of the Commonwealth. About 75% of the population is of African ethnic origin.

Economy: Agriculture, mining and tourism form the backbone of the economy. The dominant crop is sugar, with molasses and rum as important by-products. Bananas, citrus fruits and coconuts are also grown. Jamaica is the world's second largest producer of bauxite and alumina. Other industries are cement, tobacco, consumer goods and tourism.

Mission in India: Embassy of Jamaica stationed at Ottawa

Indian Mission in Jamaica: High Commission of India, 4, Retreat Avenue, P.O. Box No. 446, Kingston-6, Jamaica. Tel: 00-1-876-9273114, 9274270; Fax: 00-1-876-978280, 97803591.

E-mail: hicomindkin@cwjamaica.com

86. Japan

(Nippon)

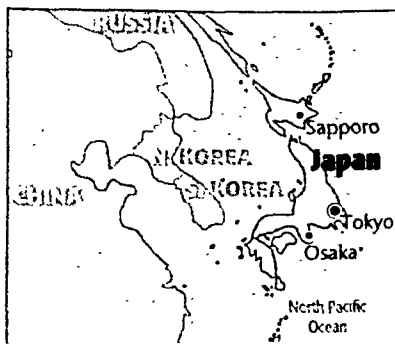
Capital: Tokyo; **Other Large Cities:** Yokohama, Osaka, Sapporo, Kyoto, Hiroshima; **Area:** 377,765 sq.km; **Population:** 127,463,611; **Languages:** Japanese; **Religions:** Shinto and Buddhism-84%, others-16% (including Christian-0.7%); **Literacy:** 99%; **Life Expectancy:** 81.25; **Currency:** Yen (\$1=114.96); **Date of Independence:** 660 B.C.

Date of Independence: 660 B.C.

Government Type: Parliamentary Democracy; **Head of State:** Emperor Akihito; **PM:** Junichiro Koizumi.

History: Japan, an archipelago off E. coast of Asia, consists of four main islands, Honshu (Mainland), Hokkaido, Kyushu and Shikoku and a number of smaller islands of which Okinawa is one. Japan has a deeply indented coastline measuring 26,600 km. Main ports are Yokohama, Kobe, Nagoya and Osaka. There are about 60 more or less active volcanoes of which the best known is Mount Aso. The famous Mount Fuji is not active. Legend has it that the Japanese Empire was founded by Emperor Jimmu in 660 B.C. In A.D. 1868 Emperor Meiji united the whole of Japan under his rule. Japan had little trade relations with foreign countries until 1871 when it entered into a trade treaty with USA. After the feudal system was abolished, westernisation set in. In 1952, Japan regained its sovereignty. Japan's victory in the Russo-Japanese War of 1904-05 raised her prestige among European powers.

Economy: Rice, the staple food of Japan, is cultivated in half the area of arable land. Other crops are wheat, barley, potatoes and tobacco. Except for limestone and sulphur, Japan is poor in minerals and Japanese industry is heavily dependent on imported raw materials and fuel. Japan, one of the most industrially advanced countries of the world,



is a leader in technology and the world's second richest country. The principal industries are automobiles, iron and steel, chemicals, textiles (cotton, wool, silk and synthetics), fishing, ceramics, precision instruments, fertilisers, machinery and shipbuilding. Japan has evolved an extensive fishing industry.

Japanese women have been the world's longest lived since 1985 and Japanese men since 1986.

In April, 1997 Japanese cabinet approved a bill allowing U.S. bases to continue to use land in Okinawa, a key military foothold in East Asia.

Recent Events: Japan and China failed to reach a breakthrough at talks in Beijing over the issue of who control oil and gas reserves in disputed areas of the East China Sea.

Mission in India: Embassy of Japan, 50-G Shantipath, Chanakyapuri, New Delhi - 110 021. Tel: 26876581, 26876564; Fax: 26885587.

E-mail: jppocol@nda.vsnl.net.in

Web: www.japan-emb.org.in

Cultural & Information Centre, 32-Ferozeshah Road, New Delhi-110 001. Tel:3329803; Fax:371-2124

Indian Mission in Japan: Embassy of India, 2-2-11, Kudan-Minami, Chiyoda-ku, Tokyo-102, Japan. Tel: 00-81-3-32622391 to 97; Fax: 00-81-3-32344866.

E-mail:indembjp@gol.com.

87. Jordan

(Hashemite Kingdom of Jordan) al Mamlaka al Urduniya al Hashemiyah

Capital: Amman; **Other Large Cities:** Zarka, Irbid, Salt; **Area:** 89,287 sq.km; **Population:** 5,906,760; **Languages:** Arabic and English; **Religions:** Sunny Muslim-92%, Christian-6%, others-2%; **Literacy:** 91.3%; **Life Expectancy:** 78.4; **Currency:** Dinar (\$1 =0.708); **p.c.i:** \$ 4,700; **Date of Independence:** 25th May, 1946.

Government Type: Constitutional Monarchy; **Head of State:** King Abdullah II; **PM:** Marouf Suleiman Bakhit.

History: A constitutional monarchy in south-west Asia, Jordan was popularly known as Trans-Jordan till 1949, when the popular name was changed to the Hashemite Kingdom of Jordan. The population is chiefly Arab of whom the majority are Muslims. In 1946, Jordan was proclaimed an independent kingdom.

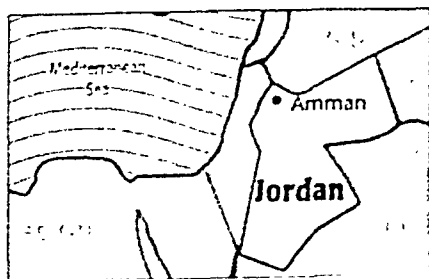
Economy: Jordan is largely desert but the western portion is fertile and produces citrus fruits, wheat, barley, lentils and water melons. Phosphate and potash make up the country's most important export item, but tourism remains its main foreign exchange earner.

Economic growth was remarkable during 1977-'82, described as the 'boom years'. School enrollment is currently one of the highest among developing countries - 94% for basic education. Almost 99% of the population have access to electricity and safe water. Industry accounts for 26% of GDP, agriculture 4%, and services sector 70%.

Textiles, cement, food-processing, petroleum products, iron and fertiliser are major industries.

On July 25, 1994, Israel and Jordan signed a joint declaration in Washington, ending 46 years of hostility.

Recent Events: Jordan was caught in the middle of hostility between Iraq and USA. Much of its oil comes from Iraq. USA is its largest donor.



Mission in India: Embassy of the Hashemite Kingdom of Jordan, 30, Golf Links, New Delhi-110 003; Tel: 24653318, 24653099; Fax: 24653353.

E-mail: jordemb@ndf.vsnl.net.in

Indian Mission in Jordan: Embassy of India, Post Box 2168, 1st Circle, Amman-11181, Jordan. Tel: 00-962-6-4622098, 4637262; Fax: 00-962-6-4659540.

E-mail: indembjp@firstnet.com.jo

88. Kazakhstan

(Republic of Kazakhstan) Kazak Respubli-kasy



Capital: Astana (also known as Akmola); **Other Large Cities:** Karaganda, Chimkent; **Area:** 2,717,300 sq.km; **Population:** 15,233,244; **Languages:** Kazakh, Russian, German; **Religions:** Muslim-47%, Russian orthodox-44%, Protestant-2%, others-7%; **Literacy:** 98.4%; **Life Expectancy:** 66.89; **Currency:** Tenge (\$1= 119.825); **p.c.i:** \$ 8,200; **Date of Independence:** 16th December, 1991.

Government Type: Republic; **President:** Nursultan A. Nazarbayev; **PM:** Daniyal Akhmetov.

History: A former Soviet Republic which declared independence on December 16, 1991, Kazakhstan stretches from the Chinese border to the Caspian Sea and is bounded by Russia, Uzbekistan and Kyrgyzstan.

The second largest former Soviet Republic is an ethnically diverse country whose popula-

tion includes over hundred nationalities. About 60% of the people live in urban areas. Half of the population is Russian or Ukrainian working on farms and in industries.

Economy: Agriculture: Grain, sugar beet, potatoes, vegetables, meat, milk, eggs, cotton. Noted for its sheep from which high quality wool is obtained.

Natural resources: Half of former Soviet Union's total deposits of copper, lead and zinc are in Kazakhstan. Other minerals: coal, tungsten, oil, nickel, chromium, molybdenum, manganese. Kazakhstan has the second largest oil field in the world in Kasagan, and sits on an estimated 3 billion tonnes of oil and 2 trillion tonnes of gas.

Industry: Iron ore, sulphuric acid, agricultural machinery, ferroconcrete, knitwear, footwear, hosiery. Among former Soviet Union's industrial republics, Kazakhstan has the third place.

In July, '98 Kazakhstan and Russia signed a pact of 'eternal friendship and cooperation' which provides for mutual military assistance in case of outside aggression against either. In Jan. '99, President Nazarbayev was re-elected for another 7-year term.

Recent Events: In January 2006, opposition leader Galyrmzhan Zhakiyanov returned home to Almaty from internal exile after being released on parole. In February, opposition figure Altynbek Sarsenbailuly, his bodyguard and driver were shot dead outside Almaty.

Mission in India: Embassy of the Republic of Kazakhstan, 4, Olof Palme Marg, Vasant Vihar, New Delhi-110 057; Tel: 26144779, 26147983; Telefax: 26144778.

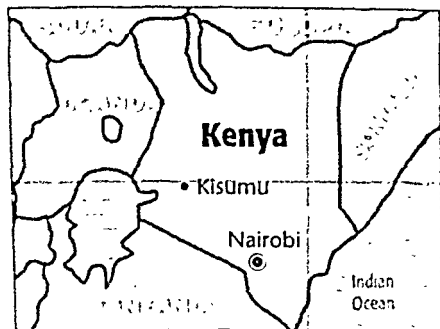
E-mail: embaskaz@giasd101.vsnl.net.in

Indian Mission in Kazakhstan: Embassy of India, Ulitsa Maulenova 71, Almaty-480091, Kazakhstan. Tel: 00-703272-921411, 694746; Fax: 00-7-3272-92667.

E-mail: india@in.emb.almaty.kz / chancery@indembasy.almaty.kz

89. Kenya

(Republic of Kenya) Jamhuriya Kenya



Capital: Nairobi; **Other Large Cities:** Mombasa, Kisumu; **Area:** 582,646 sq.km; **Population:** 34,707,817; **Languages:** Kiswahili, English, Kikuyu and several other local languages; **Religions:** Protestant-45%, Roman Catholic-33%, Indigenous beliefs-10%, Muslim-10%, others-2%; **Literacy:** 85.1%; **Life Expectancy:** 49.78; **Currency:** Shilling (\$1=73.65); **p.c.i:** \$ 1,100; **Date of Independence:** 12th December, 1963.

Government Type: Republic; **President & PM:** Mwai Kibaki.

History: Formerly a British colony, Kenya in East Central Africa became independent on December 12, 1963 (four years after the end of the violent Mau Mau uprising), and a Republic within the Commonwealth on December 12, 1964.

Economy: Kenya's prosperity rests largely on agricultural products. The chief cash crops are coffee, tea, sisal, cereals, wattle and pyrethrum. Kenya has a significant dairy industry. Mineral industries are being organised. Other industries include textiles, consumer goods and processed foods. Major exports are tea, coffee, horticulture, petroleum products and cement. Imports include crude petroleum, industrial machinery, iron and steel and drugs. Tourism has expanded considerably. Large game reserves have been developed.

Tribal clashes in the western provinces claimed thousands of lives in early 1990s.

Widespread unemployment and inflation were major problems in the first half of the decade.

The year 1997 witnessed pro-democracy clashes in the worst political violence since 1991, against Arap Moi's leadership. In Jan. '98, Arap Moi was sworn in for a final (fifth) five-year term as President.

On August 7, a devastating bomb explosion near the US embassy in Nairobi killed 200 people and injured 4000 others.

Recent Events: In January-February 2006, government ministers were linked to a corruption scandal involving contracts for a phantom company. One of them, Finance Minister David Mwiraria, resigned and said allegations against him were false. In March, armed police, acting on government orders, raided the offices and presses of the Standard group, one of Kenya's leading media companies. In April, visiting Chinese president Hu Jintao signed a contract allowing China to prospect for oil off the Kenyan coast.

Mission in India: High Commission of Kenya, 34, Paschimi Marg, Vasant Vihar, New Delhi - 110 057. Tel: 2614 6537/38, 26146540; Fax: 91-11-26146550.

E-mail: kenredel@ndf.vsnl.net.in

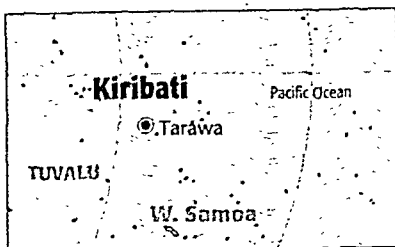
Indian Mission in Kenya: High Commission of India, Jeewan Bharati Building, Harambee Avenue, P.O. Box 30074, Nairobi, Kenya. Tel: 00-254-2-222566, 222567, 224500, 225180, Fax: 00-254-2-334167, 751644(R).

E-mail: comsechcinbo@form-net.com / hcinfo@iconnect.co.ke

90. Kiribati

(Republic of Kiribati) Ribaberikin Kiribati

Capital: Tarawa; **Area:** 861 sq. km; **Population:** 105,432; **Languages:** Gilbertese and English; **Religions:** Roman Catholic-52%, Protestant (congregational)-40%; **Life Expectancy:** 62.08; **Currency:** Australian Dollar (US \$1 = \$1.35446); **p.c.i:** \$ 800; **Date of Independence:** 12th July, 1979.



Government Type: Republic; **Head of State and Govt.:** Anote Tong.

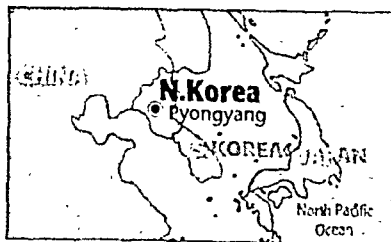
History: Gilbert islands, till recently a British colony, became independent under the name Kiribati (pronounced Kiribas) in July, 1979.

Economy: These islands, spread over a vast area in South West Pacific, number around 33. All islands except Ocean Island (Banaba) are low atolls with coconuts, pandanus and bread fruit forming the main vegetation. The population is Micronesian and Polynesian. Agriculture and fishing are the main occupations. Ocean Island has high grade phosphate deposits which are being mined and exported. Copra is the other major export item.

Recent Events: In March 2006, Kiribati distinguished itself on the global conservation map with the declaration that it was creating the third largest marine protected area in the world, conserving an archipelago of some of the planet's most pristine coral reefs

91. Korea (North)

(Democratic People's Republic of Korea)
Chosun Minchuchui Inmin Konghwaguk



Capital: Pyongyang; **Other Large Cities:** Hamhung, Chongjin; **Area:** 120,538 sq.km; **Population:** 23,113,019; **Languages:** Korean; **Religions:** Traditionally Buddhist and Confucianist, some Christian and syncretic Chondogyo (Religion of the Heavenly Way); **Literacy:** 99%; **Life Expectancy:** 71.65; **Currency:** Won (KPW) (\$1 = 142.45); **p.c.i:** \$ 1,000; **Date of Independence:** 15th August, 1945.

Government Type: Communist State; **President:** Marshal Kim Jong Il; **PM:** Pak Pong Ju.

The Democratic People's Republic of Korea occupies the northern part of the Korean peninsula.

History: During the Second World War, America occupied South Korea, and Russia North Korea. At the Potsdam Conference, the 38th parallel of latitude was recognised as the line of division between the occupation areas of Russia and America. South Koreans formed the Republic of Korea in May, 1948. North Korea was formed into the Democratic People's Republic of Korea on Sept. 9, 1948. North Korean army attacked S. Korea in June, 1950, initiating the Korean War. U.S. and other western nations, with U.N. backing, supported the south. China sent an army across the border. The war ended in an armistice (July 1953) leaving Korea divided by a 'no-man's land' along the 38th parallel. Kim Il Sung, who ruled Korea since 1948 died in July, 1994.

Economy: All industries are nationalised. Agriculture is collectivised. **Chief crops:** rice, maize, potatoes. Industrial development has concentrated on heavy industry, electricity, metallurgy, machinery and chemicals. The country is rich in coal and iron and many non-ferrous metals and hydro-electric power. It is one of the five leading countries of the world in the production of tungsten, graphite and magnetite.

Several proposals for talks between North

and South Korea on reunification have been made since 1980, but have repeatedly broken down.

The two Koreas agreed in 2000 to reconnect a rail link and to reopen border liaison offices. An accord was signed to reunite relatives separated by the division of the peninsula.

Recent Events: • In February 2006, high-level talks with Japan, the first since 2003, failed to yield agreement on key issues, including the fate of Japanese citizens abducted by North Korea. In July, North Korea test-fired a long-range missile, and some medium-range ones, to an international outcry.

Mission in India: Embassy of the Democratic People's Republic of Korea, D-14, Maharani Bagh, New Delhi - 110 065. Tel: 26829644, Telefax: 26829645.

Indian Mission in Korea (Democratic People's Republic): Embassy of India, 6, Munsudong, Taeheok Street, District Daed-onggang, Pyongyang, DPR Korea. Tel: 00-850-2-3817274, 3817215; Fax: 00-850-2-3817619.

92. Korea (South)

(Republic of Korea) Taehan Min'guk
Capital: Seoul; Other Large Cities: Pusan,



Inchon; Area: 98,859 sq.km; Population: 48,846,823; Languages: Korean; Religions: no affiliation-46%, Christian-26%, Buddhist-26%, Confucianist-1%, others-1%; Literacy: 97.9%; Life Expectancy: 77.04; Currency: Won (\$1=966.76); p.c.i: \$ 20,400; Date of Independence: 15th August, 1945.

Government Type: Republic; **President:** Roh Moo-hyun; **PM:** Han Myeong-sook.

History: The Republic of Korea, formally proclaimed on August 15, 1948, forms the southern part of the Korean peninsula. The period 1950-53 saw the Korean War, a tragic experience for the entire Korean people.

In 1991, the prime ministers of North and South Korea signed a declaration of non-aggression and reconciliation.

Economy: Chief crops are rice, wheat, barley, potatoes and vegetables. Fish is both an export item and a source of food. There are substantial coal deposits. Other minerals include iron, tungsten, graphite and fluorite. Has made big leaps in industry - textiles, electronics, steel, petrochemicals, ships and motor vehicles. Korean construction businesses are the most prolific in the world, and the nation ranks second in ship building, receiving orders amounting to 9.75 million gross tons (GT) for 208 ships in 2002.

Recent Events: In February 2006, South Korea and the US launched talks on a free trade agreement, potentially the largest free trade deal involving the US in Asia.

Mission in India: Embassy of the Republic of Korea, 9, Chandragupta Marg, Chanakya-puri Extn., New Delhi - 110 021. Tel: 26885412/19, 26885374-76; Fax: 26884840.

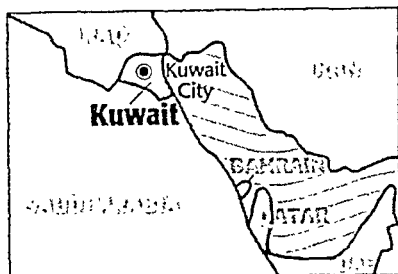
E-mail : embkorea@vsnl.com

Indian Mission in Korea (Republic of): Embassy of India, 37-3, Hannam-dong, Yongsanku, C.P.O. Box 3466, Seoul. Tel: 00-82-2-798 4257/7984268; Fax: 00-82-2-7969534, 7909938(R).

93. Kuwait

(State of Kuwait) Dawlat al-Kuwait

Capital: Kuwait City; **Other Large Cities:** Hawalli, as-Salimiya; **Area:** 17,818 sq.km; **Population:** 2,418,393; **Languages:** Arabic and English; **Religions:** Islam; **Literacy:** 83.5%;



Life Expectancy: 77.2; **Currency:** Kuwait Dinar (\$1=0.289); **p.c.i:** \$ 19,200; **Date of Independence:** 19th June 1961.

Government Type: Constitutional Monarchy; **President:** Amir Sabah al-Ahmed al-Jabir al-Sabah; **PM:** Nasir al-Muhammed al-Ahmad al Sabah.

History: Kuwait, a small Arab state, is on the north western coast of the Persian Gulf between Iraq and Saudi Arabia. There are 9 islands off the coast of Kuwait. Rate of growth of population is 3.33%. More than 125 nationalities live in Kuwait.

One of the richest oil nations of the world, Kuwait was traditionally under the rule of the Al-Sabah dynasty founded in 1756. Became independent state on June 19, 1961.

Economy: Kuwait is a small, relatively open economy with proved crude oil reserves of about 96 billion barrels – 10% of world reserves. Petroleum accounts for nearly half of GDP, 95% of export revenue, and 80% of government income. Kuwait's climate limits agricultural development. Consequently with the exception of fish, it depends almost wholly on food imports. Other products: fertilisers, chemicals, building materials, shrimp. Only one percent land is cultivated.

Iraq invaded and annexed Kuwait on August 2, 1990. However they were beaten back by a united force under the U.N.

In May, '99, Kuwait moved further towards democracy with women given right to vote and run for parliament.

Recent Events: In April 2006, women cast

their votes for the first time, in a municipal by-election. In June, women failed to win any seats in their first attempt to compete in parliamentary elections. The opposition - a loose alliance of reformists, liberals and Islamists - made gains, winning nearly two-thirds of the seats.

Mission in India: Embassy of the State of Kuwait, 5-A, Shantipath, Chanakyapuri, New Delhi - 110021. Tel: 24100791; Fax: 26873516

Recent Events: Kuwait appointed a woman-Massouma al-Mubarak-as Planning Minister, the first woman minister in the country.

Indian Mission in Kuwait: Embassy of India, Diplomatic Enclave, Arabian Gulf Street, P.O. Box.No. 1450-Safat, 13015-Safat, Kuwait. Tel: 00-965-2530600, 2540612/13, ; Fax: 00-965-2525811, 2571192.

E-mail: indemb@ncc.moc.kw

Website: www2.kems.net/users/indemb/index.htm

94. Kyrgyzstan

(Republic of Kyrgyzstan) Kyrgyz Respubli-kasy



Capital: Bishkek; **Area:** 198,500 sq.km; **Population:** 5,213,898; **Languages:** Kirghyz, Russian; **Religions:** Muslim-75%, Russian Orthodox-20%, others-5%; **Literacy:** 98.7%; **Life Expectancy:** 68.49; **Currency:** Som (\$1=40.29); **p.c.i:** \$ 2,100; **Date of Independence:** 31st August, 1991.

Government Type: Republic; **President:** Kurmanbek Bakiyev; **PM:** Feliks Kulov.

History: A former Soviet Republic that became independent in December, 1991, Kyrgyzstan is situated on the Tien-Shan mountains. It has China, Kazakhstan, Uzbekistan and Tadzhikistan as neighbours.

Economy: Agriculture: Kyrgyzstan is famed for its livestock breeding. Bee-keeping is well-developed. Products: Grain, cotton, potatoes, vegetables, fruit, meat, milk, eggs, wool, tobacco.

Industry: Sugar, food, cotton, wool, tanning, flour mills, tobacco, timber, textile, engineering, metallurgy, oil and mining.

Recent Events: In January 2006, wrestler, Raatbek Sanatbayev, a candidate for the presidency of the Kyrgyz olympic committee, was shot dead. The post became vacant when the previous holder, Bayaman Erkinbayer, also died violently. In February, parliament speaker Omurbek Tekebayev resigned after row with president Bakiev.

Mission in India: Embassy of the Kyrgyz Republic, C-93, Anand Niketan, New Delhi-110021; Tel: 24108008; Fax: 24108009.

E-mail: alattoo@starith.net.

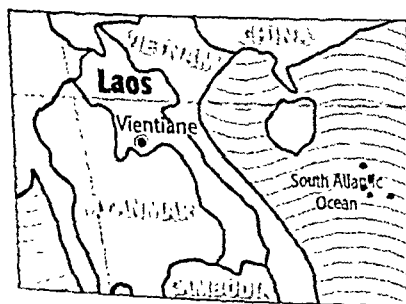
Web: kyrgyzembassyindia.org

Indian Mission in Kyrgyzstan: Embassy of India, 164-A, Chui (Prospect), Bishkek-720001, Kyrgyzstan. Tel: 00-996-312-210863; Fax: 00-996-312-660708, 210849

E-mail: india@elcat.kg / fs@elcat.kg

95. Laos

(Lao People's Democratic Republic) Sathalanat Paxathipatai Paxaxon Lao



Capital: Vientiane; **Other Large Cities:** Savannakhet, Pakse; **Area:** 236,800 sq.km; **Population:** 6,368,481; **Languages:** Lao, Tribal, English, French; **Religions:** Buddhist-60%, animist and others-40%; **Literacy:** 66.4%; **Life Expectancy:** 55.49; **Currency:** New Kip (\$ 1=101,01); p.c.i: \$ 1,900; **Date of Independence:** 19th July, 1949.

Government Type: Communist State; **President:** Lt.Gen. Choummali Saignason; **PM:** Bouasone Bouphavanh

History: Laos-Lao People's Democratic Republic - occupies a strategic position in south east Asia. A French protectorate since 1893, Laos became an independent sovereign state within the French Union in 1949. Conflicts among neutralist, communist and conservative factions created a chaotic political situation. On Dec. 2, 1975 the republic was proclaimed.

In the 1980s, Vietnamese aid - military and financial - was the chief support. Since 1988, investment from Thailand and USA has been substantial. In 1997, Laos was admitted to ASEAN.

Economy: The chief products are rice, maize, tobacco, cotton. Major industrial products: Tin, timber, textiles.

Mission in India: Embassy of the Lao P.D.R., A 104/7 Parmanand Estate, Maharani Bagh, New Delhi-110 065; Tel: 26933320; Fax: 26323048.

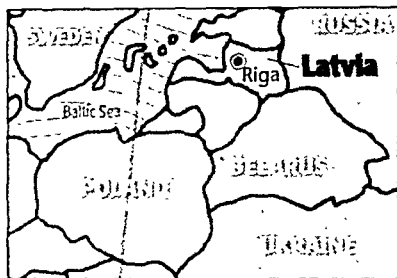
E-mail: amlaodl@ndb.vsnl.net.in

Indian Mission in Lao P.D.R.: Embassy of India, Rue That Luang, P.O. Box No. 225, Vientiane, Laos PDR. Tel: 00-856-21-413802, 413804, 416850/51; Fax: 00-856-21-412768. E-mail: indiaemb@laotel.com

96. Latvia

(Republic of Latvia) Latvijas Republika

Capital: Riga; **Other Large Cities:** Daugavpils, Liepaja; **Area:** 63,700 sq. km; **Population:** 2,274,735; **Languages:** Latvian, Lithuanian,



Russian; Religions: Lutheran, Roman Catholic, Russian orthodox; Literacy: 99.8%; Life Expectancy: 71.33; Currency: Lats (\$1=0.660); p.c.i: \$ 13,200; Date of Independence: 21st August, 1991.

Government Type: Parliamentary Democracy; **Head of State:** Mrs. Vaira Vike-Freiberga; **PM:** Aigars Kalvitis.

History: Latvia has the Baltic sea on the north and west. Neighbours are Estonia, Lithuania, Byelorussia and Russia. Latvia seceded from Soviet Union and attained independence in August, 1991, after having attempted to establish independence in 1990.

Latvia continues a pro-western foreign policy; It was largely cut off from the western world during 50 years of Soviet rule.

In June '99, Mrs. Vaira was elected President, the first democratically elected woman President of a central or east European country.

Economy: Urbanisation has changed the face of this predominantly agricultural country. Crops: oats, barley, rye, potatoes, flax, sugarbeet, meat, milk and eggs. Cattle breeding and dairy farming are chief occupations. Natural resources: peat, briquettes and gypsum. Industry: Electric railway passenger cars and long-distance telephone exchanges (the main producer of these in former Soviet Union), paper and woollen goods, sawn timber, mineral fertilisers, hosiery, garments, leather footwear, chemical fibre, buses and radio receivers.

Recent Events: Joined EU in 2004.

Mission in India: Hon. Consulate General

of Republic of Latvia, 48/11, Malcha Marg Chanakyapuri, New Delhi-110 021. Tel: 2112931; Telefax: 26113753.

97. Lebanon

(Republic of Lebanon) al-Jumhuriya al-Lubnaniya



Capital: Beirut; **Other Large Cities:** Sidon, Tyre; **Area:** 10,400 sq.km; **Population:** 3,874,050; **Languages:** Arabic, French & English; **Religions:** Muslim-59.7% (Including Shi'a, Sunni, Druze, Isma'ilite, Alawite or Nusayri), Christian-39% (including Orthodox Christian, Catholic, Protestant), Jewish; **Literacy:** 87.4%; **Life Expectancy:** 72.88; **Currency:** Pound (\$1=1,504); **p.c.i:** \$ 6,200; **Date of Independence:** 22nd November, 1943.

Government Type: Republic; **President:** Emile Lahoud; **PM:** Fuad Siniora.

History: The Republic of Lebanon occupies a strip of land along the Mediterranean coast between Syria and Israel. Lebanon became independent in 1941.

According to constitutional conventions, the Maronite Christians and Sunni Muslims shared power. However, because of the 16-year-old civil war between the Christians (30%) and Muslims (70%) there has been no stable administration. Terrorist bombings were common in 1983; so was kidnapping of foreign nationals by Islamic militants in the 1980s.

In October 1990, Christian army led by Gen. Michel Aoun was defeated by the Syrian-backed militia supporting president Elias

Hrawi, who was installed in power by all Arab consensus. In the civil war, above 125,000 people are feared dead. A Syria-Lebanon treaty of 1991 recognised Lebanon as a separate independent state.

Syria, which has 30,000 troops in Lebanon, dominates this country militarily and politically. Israeli troops in southern Lebanon began evacuating outposts there in May, 2000.

Economy: Primarily an agricultural country, Lebanon produces olive oil, grain and fruits. The chief industries are oil refining, food processing, textiles, chemicals and cement. Tourism used to be a valuable source of income.

Recent Events: In February 2006, Denmark's embassy in Beirut was torched during a demonstration against cartoons in a Danish newspaper satirising the prophet Muhammad. Israel launched air and sea attacks on targets in Lebanon after Lebanon's militant Hezbollah group captured two Israeli soldiers. Civilian casualties were high and the damage to civilian infrastructure wide-ranging. In August, thousands of Israeli ground troops thrust into southern Lebanon in an apparent expansion of their military campaign.

Mission in India: Embassy of Lebanon, 26-B, Sardar Patel Marg, Chanakyapuri, New Delhi-110021. Tel: 26111919 & 26111415, Telefax: 26111818.

E-mail: lebemb@vsnl.net

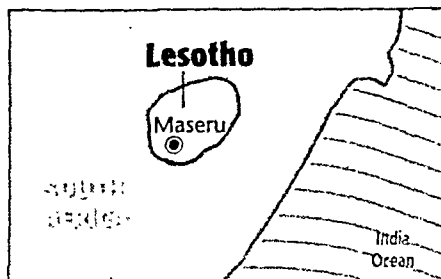
Indian Mission in Lebanon: Embassy of India, 31, Kantari Street, Sahmarani Building, P.O. Box No.113-5250 (Hamra) and 11-1764, Beirut, Lebanon. Tel: 00-961-1-373539, 372619; Fax: 00-961-1-373538.

E-mail: indermbei@dm.net.lb

98. Lesotho

(Kingdom of Lesotho)

Capital: Maseru; **Area:** 30,355 sq.km; **Population:** 2,022,331; **Languages:** English and



Sesotho; **Religions:** Christian-80%, indigenous beliefs-20%; **Literacy:** 84.8%; **Life Expectancy:** 34.4; **Currency:** Loti (plural Maluti) (\$1=6.84 Maluti); **p.c.i:** \$ 2,500; **Date of Independence:** 4th October, 1966.

Government Type: Parliamentary Constitutional Monarchy; **Head of State:** King Letsie III; **PM:** Pakalitha Mosisili.

History: The Kingdom of Lesotho is an enclave within the Republic of South Africa. Lesotho was a British protectorate under the name Basutoland. It became independent as Lesotho on Oct. 4, 1966. King Moshoeshoe II died in a car accident in January, 1996.

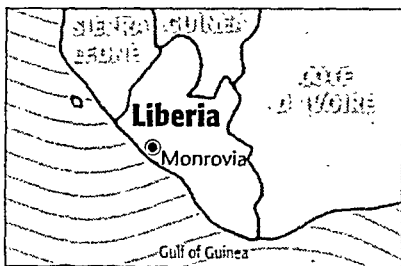
Economy: The principal occupation is agriculture. Crops: maize, grains, peas, beans. Livestock-raising is important activity. Lesotho possesses water and hydro-electric resources of great potential. Livestock, diamonds, wool and mohair are the main exports. Industry: Food processing. Most of Lesotho's GNP is provided by citizens working in S. Africa.

Mission in India: Embassy of Lesotho stationed at Beijing.

99. Liberia

(Republic of Liberia)

Capital: Monrovia; **Other Large Cities:** Buchanan; **Area:** 111,369 sq.km; **Population:** 3,042,004; **Languages:** English and tribal dialects; **Religions:** Indigenous beliefs-40%, Christian-40%, Muslim-20%; **Literacy:** 57.5%; **Life Expectancy:** 39.65; **Currency:** Liberian Dollar (\$1=\$4); **p.c.i:** \$ 1,000; **Date of Independence:** 26th July, 1847.



Government Type: Republic; President & PM: Ellen Johnson - Sirleaf.

History: Liberia lies on the Atlantic coast of Africa. It was founded in 1822 in order to settle freed American slaves in West Africa and declared a republic on July 26, 1847.

Economy: About 90 per cent of the population is engaged in agriculture, much of it at subsistence level. Main crops are cassava, coffee, rice, cocoa and palm oil. Iron ore and rubber are the main exports. Industry: Food processing, mining.

Civil strife that broke out in Dec. '89 tore the country apart making it the most violent country in the region. About half the population became refugees as a result of the Civil War, which claimed 150,000 lives.

In 1994, a 17-member coalition transition government was instituted. Factional fighting continued. The leaders signed about a dozen peace accords, only to resume fighting. Monrovia descended into chaos and bloodshed in 1996. Ruth Perry led a transitional government in Sept. '96, becoming modern Africa's first female head of state.

In July '97, Charles Taylor, a warlord who launched a civil war eight years ago to oust dictator Samuel Doe, won 75% of the presidential vote, and came to power, pledging to build a new country and apologising for the past bloodshed and violence.

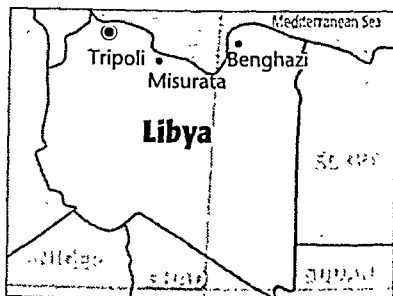
Recent Events: In February 2006, Truth and Reconciliation commission was set up to investigate human rights abuses between 1979 and 2003. In April, former President, Charles

Taylor, appeared before a UN-backed court in Sierra Leone on charges of crime against humanity. In June the Netherlands-based International Criminal Court agreed to host his trial.

Mission In India: Honorary Consulate General. Mohan House, Zamrudpur Community Centre, Kailash Colony Extn. New Delhi-110 048. Tel: 264333135; Fax: 26460191

100. Libya

(Socialist People's Libyan Arab Jamahiriya) al-Jamahiriyyah al-Arabiya al-Libya al-Shabiya al-Ishtirakiya



Capital: Tripoli; **Other Large Cities:** Benghazi, Misurata; **Area:** 1,759,540 sq.km; **Population:** 5,900,754; **Languages:** Arabic; **Religions:** Sunni Muslim-97%; **Literacy:** 82.6%; **Life Expectancy:** 76.69; **Currency:** Libyan Dinar (\$1 = 1.298); p.c.i: \$ 11,400; **Date of Independence:** 24th December, 1951.

Government Type: Military Dictatorship; **President:** Col. Muammar El-Gaddafi; **PM:** al-Baghdadi Ali al-Mahmudi.

History: An Arab state on the Mediterranean coast of North Africa, Libya changed its name to 'The Socialist People's Libyan Arab Jamahiriya' in 1977. 'Jamahiriya' means 'State of the masses'.

Formerly an Italian colony, Libya became an independent state in 1952. The king was deposed in 1969.

Economy: The main agricultural products

heat, barley, dates, olives, almond and fruits. Fishing, tobacco processing, dyeing and weaving, handicrafts and petroleum are the important industries. Oil was discovered in 1957 and today Libya is one of the leading producers of oil.

Recent Events: In February 2006, at least 10 people were killed in clashes with police in Benghazi, part of a wave of international protests by Muslims who were angered by a British newspaper's cartoon depictions of the Prophet Muhammad. In May the US said it was restoring full diplomatic ties with Libya.

Indian Mission in India: People's Bureau of the Indian Socialist People's Libyan Arab Jamahiriya, 22, Golf Links, New Delhi - 110003. Tel: 24697771, 24697717; Telefax: 24697705.

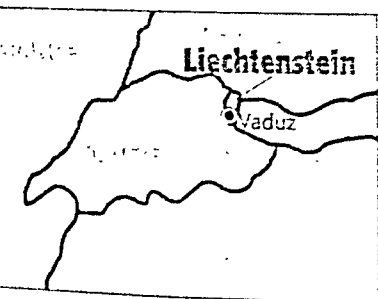
E-mail: libya@bol.net.in

Indian Mission in Libya: Embassy of India, 118, Shara Mamoud Shaltout, Garden City, Tripoli, Box 3150, Tripoli, Libya. Tel: 00-218-4441835-36, 4447899; Fax: 00-218-21-37560.

E-mail: indembtrip@mail.link.net.mt/ indembtrip@hotmail.com

101. Liechtenstein

(Principality of Liechtenstein) Fürstentum Liechtenstein



Capital: Vaduz; **Other Large Cities:** Scharnau; **Area:** 160 sq.km; **Population:** 33,987; **Languages:** German; **Religions:** Roman Catholic-66.2%, Protestant-7%, unknown-10.6%, other-

ers-6.2%; **Literacy:** 100%; **Life Expectancy:** 79.68; **Currency:** Swiss Franc (\$1=1.232); **p.c.i:** \$ 25,000; **Date of Independence:** 23rd January, 1719.

Government Type: Hereditary Constitutional Monarchy; **Head of State:** Prince Hans Adam II; **PM:** Ottmar Hassler.

History: Liechtenstein is a small state on the upper Rhine, between Austria and Switzerland. It measures 24 km from north to south and 9 km from east to west. It became an independent kingdom in 1866.

Foreign workers comprise a third of the population: Many international corporations have headquarters in Liechtenstein.

The country has remained neutral and undamaged in all European wars since 1868, when the army was abolished. In 1984, male voters granted women the right to vote.

Economy: The economy is mainly industrial. Cattle-rearing is highly developed. The country's farming population has gone down from 70% to 2% in about 60 years. Chief industries are machines and tools, textiles, foodstuffs, leather-ware, chemicals, furniture and ceramics.

102. Lithuania

(Republic of Lithuania) Lietuvos Respublika



Capital: Vilnius (Vilna); **Other Large Cities:** Kaunas, Klaipeda; **Area:** 65,200 sq.km; **Population:** 3,585,906; **Languages:** Lithuanian; **Religions:** Roman Catholic (primarily), Lutheran, Russian Orthodox, Protestant, Evangelical

Christian Baptist, Muslim, Jewish; Literacy: 99.6%; Life Expectancy: 74.2; Currency: Litas (\$1=2.73); p.c.i: \$ 13,700; Date of Independence: 11th March, 1990.

Government Type: Parliamentary Democracy; **President:** Valdas Adamkus; **PM:** Zigmas Balciytis.

History: Lithuania seceded from Soviet Union and attained independence in August, 1991. Earlier in March 1990, Lithuania had formally declared its independence but USSR defeated it by cutting off supplies and by other manoeuvres. It is bordered by Latvia, Belarus, Poland and Russia.

Russia withdrew its last soldier from Lithuania on Aug. 31, 1993.

The country, which was mainly agricultural before 1940, has been considerably industrialised since. There is a privatisation programme. By Jan.'95, 5100 former state enterprises had been sold.

Economy: Agriculture: Grain, potatoes, sugar-beet, vegetables, meat, milk and eggs. Natural resources: Forests cover 1,554,000 hectares, 70% of which consist of conifers, especially pines. Peat reserves total 4,000 m.cu. metres. Industry: Heavy engineering, ship-building, building material industries, electronic goods, chemicals, paper, leather, sugar and garments.

Mission in India: Hon. Consulate of the Republic of Lithuania, Mohan House, Zamrudpur Community Centre, Kailash Colony Extn., New Delhi-110 048. Tel: 26433135; Fax: 26460191.

ancy: 78.89; Currency: Euro (\$1=0.79); p.c.i: \$55,600; Date of Independence: 1839.

Government Type: Constitutional Monarchy; **Head of State:** Grand Duke Henri; **Head of Govt.:** Jean-Claude Juncker.

History: Luxembourg is a small state lying in between Germany, Belgium and France. It is a Grand Duchy.

Its independence was confirmed by the Treaty of London in 1867. Luxembourg is a member of the European Union.

Economy: A member of the European Economic Community, the Benelux, the European Steel and Coal Community and the Euratom, Luxembourg is a highly industrialised state. Its iron deposits form the basis of a big steel industry, which accounts for 70 per cent of the country's exports. Other industries: Chemicals, beer, tires, tobacco, metal products, cement. Agriculture occupies only 10 per cent of the population. Chief crops: Corn, wine and dairy products.

Recent Events: Luxembourg voted by 57% to 43% to approve the EU constitution.

Mission in India: Embassy of the Grand Duchy of Luxembourg, 730, Gadaipur Road, Branch Post Office Gadaipur, New Delhi-110030. Tel: 26801954. Fax: 26801971.

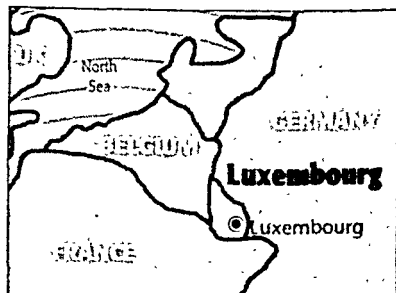
E-mail: paulsteinmetz@internet.lu

Indian Mission in Luxembourg: Honorary Consulate General of India, "Cabinet d'Avocats" Jim Penning, 31, Grand-Rue, B.P. 282, L-2012, Luxembourg. Tel: 00-352-473886; Fax: 00-352-222584.

103. Luxembourg

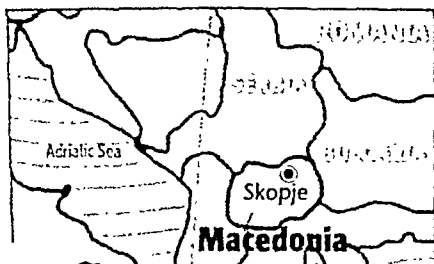
(Grand Duchy of Luxembourg) Grand-Duché de Luxembourg

Capital: Luxembourg; **Other Large Cities:** Petange, Sanem; **Area:** 2586 sq. km.; **Population:** 474,413; **Languages:** French, German, English and Luxembourgish; **Religions:** Roman Catholic-87%, Protestants, Jews and Muslims-13%; **Literacy:** 100%; **Life Expect-**



104. Macedonia

(Former Yugoslav Republic of Macedonia)
Republika Makedonija



Capital: Skopje; Other Large Cities: Bitola, Tetovo; Area: 25,713 sq. km.; Population: 2,050,554; Languages: Macedonian; Religions: Macedonian Orthodox-64.7%, other Christian-0.37%, Muslim-33.3%, others-1%; Literacy: 96.1%; Life Expectancy: 73.97; Currency: Denar (\$1 = 48.61); p.c.i: \$ 6,450; Date of Independence: 8th September, 1991.

Government Type: Parliamentary Democracy; President: Branko Crvenkovski; PM: Vlado Buckovski.

Ethnic breakdown: Macedonians - 65%; Albanians-22%; others (including Gypsies) - 13%. A third of the population is believed to be Muslim and the rest Orthodox Christians.

History: Former Yugoslavia's poorest republic, Macedonia is land-locked and is bounded by Bulgaria, Greece, Albania and Yugoslavia. On September 8, 1991 it voted to declare independence but EC and US refused to give recognition owing to Greek objections to its use of the name Macedonia. Greeks say Macedonia's name implies territorial claims on the northern Greek province of Macedonia. Macedonia has adamantly opposed a name change. Claims to the historical Macedonian territory have long been a source of contention with Bulgaria and Greece.

Macedonia became the 181st member of the UN on April 8, 1993 under the temporary name 'the former Yugoslav republic of Macedonia'. Yugoslavia and Macedonia established diplomatic ties in April, 1995.

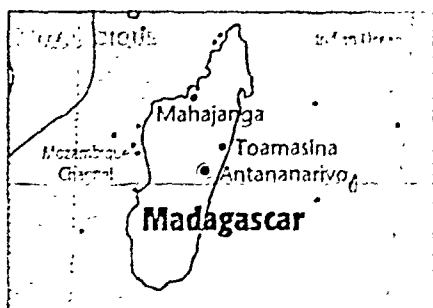
Macedonia's resources were under tremendous strain in 1999 on account of the flow of Kosovan refugees.

Economy: Agricultural products: Wheat, maize, cotton, timber, livestock. Industry: Electricity, lignite, steel, cement.

Recent Events: President Crvenkovski asked Nikola Gruevski, leader of the centre-right VMRO-DPMNE party, to form a new government on 28 July, 2006.

105. Madagascar

(Democratic Republic of Madagascar)
Republika Demokratika Malagasy



Capital: Antananarivo; Other Large Cities: Toamasina, Mahajanga; Area: 587,341 sq km; Population: 18,595,469; Languages: Malagasy and French; Religions: indigenous beliefs-52%, Christian-41% and Muslim-7%; Literacy: 68.9%; Life Expectancy: 57.34; Currency: Ariary (\$1 = 2173); p.c.i: \$ 900; Date of Independence: 26th June, 1960

Government Type: Republic, President: Marc Ravalomanana, PM: Jacques Sylla

History: Madagascar, the world's fourth-largest island, lies in the Indian Ocean, off the south-east coast of Africa. It was discovered in 1500 by the Portuguese Diego Diaz, became a French colony in 1896, and an Overseas Territory in 1946. In 1958, it proclaimed the autonomous Malagasy Republic within the French Community, gaining full independence on June 26, 1960.

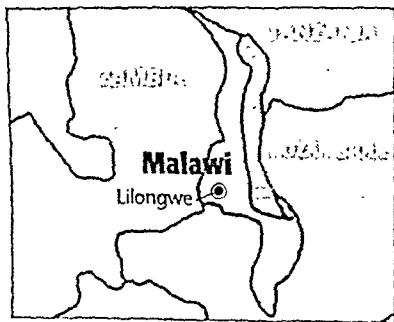
Economy: The economy is essentially agricultural. Rice is the staple food and coffee the chief export (45%). Cassava, fruits, tobacco, cloves and vanilla are also cultivated. Large herds of cattle are raised. Mineral deposits include graphite, mica, nickel and copper. World Bank reckons that half the population is malnourished. Industry: Food processing, textiles.

Indian Mission in Madagascar: Embassy of India, 4, Lalana Rajaonson Emile, Tsaralalanaa, Post Box No. 1787, Antananarivo, Madagascar. Tel: 00-261-20-2233790, 2262729; Fax: 00-261-20-233790, 222729.

E-mail: indembmd@bow.dts.mg

106. Malawi

(Republic of Malawi)



Capital: Lilongwe; **Other Large Cities:** Blantyre, Mzuzu; **Area:** 118,784 sq.km; **Population:** 13,013,926; **Languages:** English, Chichewa, Lomwe, Yao; **Religions:** Protestant-55%, Roman Catholic-20%, Muslim-20%, indigenous beliefs-3%, others-2%; **Literacy:** 62.7%; **Life Expectancy:** 41.7; **Currency:** Kwacha (\$1=139.15); **p.c.i.:** \$ 600; **Date of Independence:** 6th July, 1964.

Government Type: Republic; **Head of State & Govt. (President):** Bingu wa Mutharika.

History: Malawi in south-east Africa is bounded by Tanzania, Mozambique and Zambia. Lake Malawi, formerly Lake Nyasa, the third largest lake in Africa, lies on its east-

ern side. This land of lakes and mountains has infinite beauty and is considered a tourists' paradise. Malawi, formerly the British protectorate Nyasaland, (until 1907 British Central Africa) became independent in 1964 and a republic in 1966.

Dr. Hastings Kamuzu Banda's (President since 1971) autocratic system was rejected by Malawians in 1994. President Muluzy was re-elected for a final five-year term in June, '99.

Economy: Poor in resources, Malawi's agriculture is still at subsistence level. Maize is the main food crop. The chief cash crops are tea, tobacco, sugar and cotton. Industry: Textiles, sugar and cement.

Mission in India: High Commission of the Republic of Malawi stationed at Nairobi.

Honorary Consulate of the Republic of Malawi, 40, Ashoka Avenue, Sainik Farm, Khanpur Gate, New Delhi-110 062. Tel: 26518527.

E-mail: stkilachand@vsnl.net

107. Malaysia



Capital: Kuala Lumpur; **Other Large Cities:** Pinang, Ipoh; **Area:** 330,434 sq.km; **Population:** 24,385,858; **Languages:** Malay, English, Chinese, Tamil; **Religions:** Muslim, Buddhist, Daoist, Hindu, Christian, Sikh, Note: in addition, Shamanism is practised in east Malaysia; **Literacy:** 88.7%; **Life Expectancy:** 72.5; **Currency:** Ringgit (\$1=3.64); **p.c.i.:** \$ 12,100; **Date of Independence:** 31st August, 1957.

Government Type: Constitutional Monarchy; **Supreme Head of State:** King Tuanku

Syed Sirajuddin Syed Putra Jamalullail; PM: Abdullah bin Ahmad Badawi

Malaysia, at the southern end of the Malay Peninsula in south-east Asia, is a federation of 13 states comprising Johor, Kedah, Kelantan, Melaka, Negeri Sembilan, Pahang, Perak, Perlis, Pulau Pinang, Sabah, Sarawak, Selangor and Terengganu.

History: Malaysia was created in 1963. It included Malaya, which had become independent in 1957, plus the formerly-British Borneo, Sabah and Sarawak. Singapore was separated in 1965.

Economy: Natural resources are abundant. Malaysia is one of the world's largest producers of rubber, tin and palm oil. Malaysia is also the world's leading exporter of pepper and rubber. Other crops are rice, coconut, vegetables, pineapples, coffee, tea, cocoa, etc. Iron ore, gold, ilmenite and bauxite are the major mineral resources. The petroleum industry in Malaysia is becoming significantly important to the economy of the nation. Leading industries are food products, tobacco, food products, electrical goods, textiles, chemical products, construction goods, non-metallic products, transport equipment and the processing of agricultural products from rubber (eg. rubber, palm oil). Industrialisation has been speeded up with foreign investment. M. Dr. Mahathir is the chief architect of the country's privatisation programme. Service industries contribute 48% of GDP.

'Peninsular Malaysia' comprises the 11 states of Johor, Pahang, Negeri Sembilan, Selangor, Perak, Kedah, Perlis, Kelantan, Terengganu, Penang and Melaka.

Recent Events: In April 2006, Malaysia shelved the construction of a controversial bridge to Singapore. The proposed link was the subject of dispute between the two countries.

Mission in India: High Commission for Malaysia, 50-M, Satya Marg, Chanakypuri, New Delhi - 110021. Tel: 26111291-93 & 26111297; Fax: 91-11-26881538.

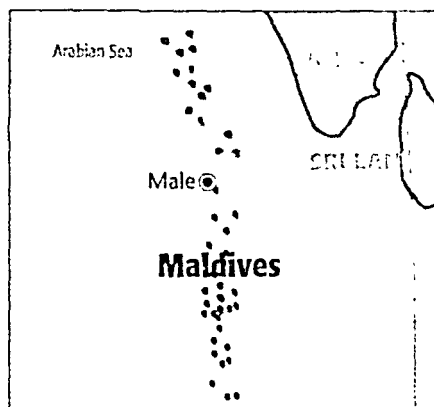
E-mail: mwndelhi@del2.vsnl.net.in

Indian Mission in Malaysia: High Commission of India, No.2, Jalan Taman Duta, Off Jalan Duta, 50480 Kuala Lumpur, (or) P.O. Box No. 10059 G.P.O., 50704, Kuala Lumpur. Tel: 00-603-2533504, 2533509, 2533510, 2433511; Fax: 00-603-2533507, 2525826.

E-mail: hoc@po.jaring.my / dhc002@po.jaring.my/ highcomm@po.jaring.my(H.C.)

108. Maldives

(Republic of the Maldives) Divedhi Raajjeyge Jumhuriya



Capital: Male, **Area:** 298 sq km, **Population:** 359,008; **Languages:** Divehi (Sinhalese dialect); **Religions:** Sunny Muslim; **Literacy:** 97.2%; **Life Expectancy:** 64.41; **Currency:** Rufiya (\$1=12.8), p.c.i: \$ 3,900; **Date of Independence:** 26th July, 1965

Government Type: Republic; **Head of State & Govt (President):** Maumoon Abdul Gayoom

The Republic of Maldives, lying about 675 km south-west of Sri Lanka, consists of more than 1,200 small coral islands (199 inhabited) grouped in 19 atolls, in the Indian Ocean.

History: Maldives, called the 'Islands' until April 1969, formerly elected Sultan as head of state.

were placed under British protection, with internal self-government, in 1887. They became a republic in January 1953 but the sultanate was restored in February 1954. Maldives became fully independent, outside the Commonwealth, on 26 July 1965. Following a referendum, the country became a republic again in November 1968, with Ibrahim Nasir, Prime Minister since 1954, as President.

In 1956 the Maldivian and British Governments agreed to the establishment of a Royal Air Force staging post on Gan, an island in the southernmost atoll, Addu. In 1975 the British Government's decision to close the base and to evacuate British forces created a large commercial and military gap. In October 1977 President Nasir rejected an offer of an annual payment of US \$ 1 m. from the USSR to lease the former base on Gan, announcing that he would not lease the island for military purposes, nor lease it to a superpower.

In 1981 the President announced plans to establish an international business complex on Gan. By 1982 two garment factories were operational, and a third was under construction. Gan airport was declared international airport in 1988.

In March 1975 President Nasir dismissed the Prime Minister, Ahmed Zaki, and the post of Prime Minister was abolished. Maumoon Abdul Gayoom, Minister of Transport became President in November 1978.

An attempted coup took place in November, 1988. It was scotched with assistance from India.

Government: Legislative power is held by the unicameral Citizens' Council (Majilis), with 48 members. The country has 20 administrative districts. There are no political parties. Maldives is divided into the capital and 19 other administrative districts, each under an appointed governor (verin) assisted by local chiefs (katheebum), who are also appointed.

Economy: Most of the country's population live on tiny coral islands in scattered atolls. These islanders are generally outside a money economy, subsisting by fishing and collecting coconuts. Arable land is minimal. Virtually all the principal staple foods have to be imported.

The islands are covered with coconut palms and yield millet, cassava, yams, melons and other tropical fruit as well as coconut produce. The main industries are fishing, tourism, shipping, reedware, lacquer-work, coconut processing and garment manufacturing. The GDP has grown at an annual rate of around 6% from 1992-93, fuelled mainly by an expansion and growth of tourism industry (an average of 10% annually) and the modernisation of the fisheries sector. Bonito ('Maldivian fish') is the main export commodity and source of foreign exchange after tourism. White sandy beaches and multi-coloured coral formations are chief tourist attractions.

Mission in India: High Commission for Maldives stationed at Colombo.

Honorary Consulate of the Republic of Maldives, 702-703, Deepali Building, 92, Nehru Place, New Delhi-110 019. Tel: +91-11 26229336; Fax: +91 11 26481352.

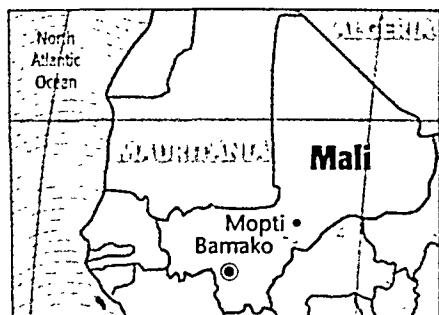
E-mail: ashishs78@yahoo.com

Indian Mission in Maldives: High Commission of India, Athireege Aage, Ameeru Ahmed Magu, Henveiru, Male, Republic of Maldives. Tel: 00-960-323014/16; Fax: 00-960-324778.

E-mail: hicomal1@dhivehinet.net.mv

109. Mali

(Republic of Mali) Republique du Mali
Capital: Bamako; **Other Large Cities:** Segou, Mopti; **Area:** 1,240,192 sq.km; **Population:** 11,716,829; **Languages:** French (official), Bambara and other African languages; **Religions:** Muslim-90%, indigenous beliefs-9%, Christian-1%; **Literacy:** 46.4%; **Life Expect-**



ancy:49; Currency: CFA Franc (\$1=518.98); p.c.i.: \$1,200; Date of Independence: 22nd September, 1960.

Government Type: Republic; **President:** Amadou Toumani Toure; **PM:** Ousmane Issoufi Maiga.

History: Mali is a land-locked state in West Africa. It was proclaimed an independent republic in 1960.

The area was part of the great Mali Empire, until the 15th century. In 1904, it became a French colony named French Sudan and in 1946 part of the French Union. In June 1960 it became independent and was named the Sudanese Republic. The Sudanese Republic federated with Senegal in the Mali Federation that year. Senegal then withdrew from this and the Sudanese Republic changed its name to the Republic of Mali on Sept. 22, 1960. Amadou Toumani Traore was in power from 1968 to 1991.

Agreements were signed with Tuareg insurgents in the north in '91, '92 and '94. A special administration for the Tuareg north was provided in 1992.

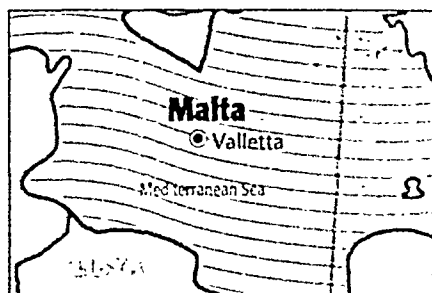
In Jan. '99, ex-President Traore was condemned to death for economic crimes.

Economy: The country is poor in natural resources. Only about 20 per cent of the land is cultivable. The main crops are rice, millet, groundnuts and cotton. Livestock-raising is important and the processing of hides and skins remains the chief industry. There is extensive river-fishing and good export trade in dried and smoked fish.

Recent Events: In May 2006, visiting French Interior Minister Nicolas Sarkozy faced a hostile reception from protesters accusing him of racism over the tough immigration bill he introduced in parliament. In June, the government signed an Algerian-brokered peace deal with Tuareg rebels seeking greater autonomy for their northern desert region.

110. Malta

(Republika Ta' Malta)



Capital: Valletta; **Other Large Cities:** Birkirkara, Harum and Sliemna; **Area:** 316 sq. km; **Population:** 400,214; **Languages:** Maltese and English; **Religions:** Roman Catholic-98%; **Literacy:** 92.8%; **Life Expectancy:** 79.01; **Currency:** Maltese Lira (\$1=0.339); p.c.i.: \$19,900; **Date of Independence:** 21st September, 1964.

Government Type: Republic; **President:** Eddie Fenech Adami; **PM:** Lawrence Gonzi

History: Malta is an island in the central Mediterranean Sea, 95 km from Sicily and about 290 km from the African coast. This state also includes the adjoining islands of Gozo and Comino. Malta became independent in 1964 and a republic in 1974. Malta joined the European Union on May 1, 2004.

Economy: The rocky country has no natural resources. Textiles, footwear, rubber products and plastics are exported. Ship repair and ship building are major economic activities. Agricultural products include wheat, citrus, onions, potatoes and tomatoes.

ism, however, remains the island's major industry.

Mission in India: High Commission for Malta stationed at Malta .

Honorary Consulate of the Republic of Malta. 1, Hailey Road, New Delhi-110 001. Tel: 23329090; Fax: 23329393.

E-mail: maltaconsulate@europemail.com

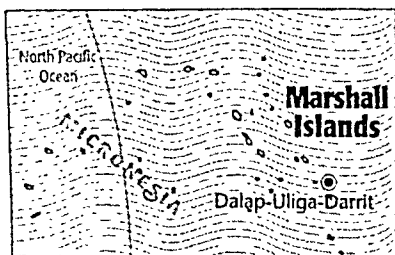
Web: www.kathpalia.org/malta

Indian Mission in Malta: High Commission of India, Regional Road, St. Julianas, SGN 02, Malta. Tel: 00-356-344302/03; Fax: 00-356-344259.

E-mail: hcimalta@mail.link.net.mt

111. Marshall Islands

(Republic of the Marshall Islands)



Capital: Dalap-Uliga-Darrit (on Majuro atoll); **Area:** 181 sq.km; **Population:** 60,422; **Languages:** Marshallese, English, other indigenous languages and Japanese; **Religions:** Christian (Mostly Protestant); **Literacy:** 93.7%; **Life Expectancy:** 70.31; **Currency:** Dollar (US); **p.c.i.:** \$ 2,300 ; **Date of Independence:** 21st October, 1986.

Government Type: Republic; **President:** Kessai Note.

History: The Republic of Marshall Islands consists of two island/atoll chains, in the Pacific Ocean, the Ratak (sunrise) Chain and the Ralik (sunset) Chain, totalling 31 atolls. Each atoll is a cluster of several small islands circling a lagoon. Kwajalein is the largest of the islets, which number about a hundred.

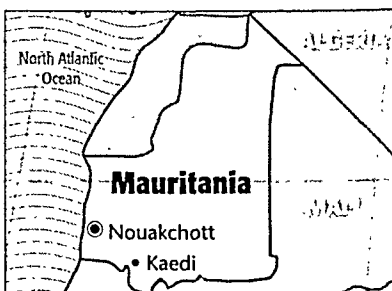
The capital Majuro is about 3200 kms south-west of Honolulu. About 92% of the population are Marshallese, a Micronesian people.

Marshall Islands was a Trusteeship territory of the United States until Oct. 1986. The Islands became a full U.N. member state in Sept., 1991. The USA controls defence policy and provides financial support. Kwajalein, one of the main atolls in the western chain, is a U.S. missile-testing range and air field.

Economy: Agriculture and tourism are mainstays. Crops: Coconuts, tomatoes, melons and bread fruit. Minerals: Phosphate deposits are mined on Ailinglaplap atoll.

112. Mauritania

(Islamic Republic of Mauritania) Republi-que Islamique de Mauritanie



Capital: Nouakchott; **Other Large Cities:** Nouadhibou, Kaedi; **Area:** 1,030,700 sq.km; **Population:** 3,177,388; **Languages:** Arabic, French and Hassanya Arabic, Wolof, Pulaar, and Soninke; **Religions:** Muslim-100%; **Literacy:** 41.7%; **Life Expectancy:** 53.12; **Currency:** Ouguiya (\$1=271.3); **p.c.i.:** \$ 2,200; **Date of Independence:** 28th November, 1960.

Government Type: Islamic Republic; **President:** Col.Ely Ould Mohamed Vall; **PM:** Sidi Mohamed Ould Boubakar.

History: The Islamic Republic of Mauritania is on the Atlantic coast of the West African bulge.

This former French overseas territory became autonomous in 1958 and fully independent on Nov. 28, 1960. Opposition parties were legalised and a new constitution approved in 1991.

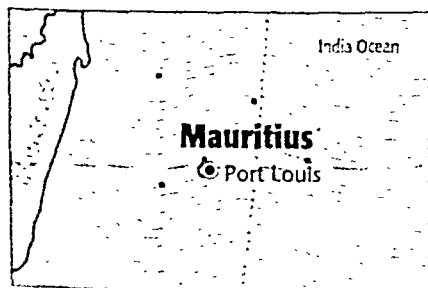
Mauritania signed a peace treaty with the Polisario Front in 1980, and renounced sovereignty over its share of Western Sahara.

Economy: As much as 47% of the total area of the country is desert. The population is traditionally nomadic, rearing cattle and sheep. Main crops: dates, grain. Fishing is important. Deposits of iron and copper are being exploited. Oil prospecting is going on. **Industry:** Fish processing and iron mining.

Recent Events: Soldiers overthrew Mauritania's president, Maaouiya Ould Sid Ahmed Taya, who had been attending King Fahd's funeral, and set up a military council to end what is called a "military regime".

113. Mauritius

Capital: Port Louis; **Other Large Cities :**



Curepipe, Quatre Bornes; Area: 2040 sq.km; **Population:** 1,240,827; **Languages:** English, French, Creole and Hindustani; **Religions:** Hindu-52%, Christian-28.3% (Roman Catholic-26%, Protestant-2.3%), Muslim-16.6%, others-3.1%; **Literacy:** 85.6%; **Life Expectancy:** 72.63; **Currency:** Rupee (\$1=30.78); **p.c.i.:** \$ 13,100; **Date of Independence:** 12th March, 1968.

Government Type: Parliamentary Democ-

racy; President: Anerood Jugnauth; **PM:** Navinchandra Ramgoolam.

History: Mauritius, a volcanic island nearly surrounded by coral reefs, lies about 800 km east of Madagascar in the Indian Ocean. Settled by the Dutch in 1638. The French who took over in 1721, brought African slaves. The British who ruled from 1810 to 1968 brought Indian workers for the sugar plantations. The Indian majority in Mauritius are descendants of these workers. **Ethnic groups:** Indo-Mauritian 68%, Creole 27%.

Became an independent state on Mar.12, 1968. Formally severed its association with the British crown and became a republic in 1992.

About 37,000 people live in Rodrigues, a small dependency.

Economy: Sugarcane is the predominant crop. The main secondary crops are tea, tobacco and potatoes. Tourism is a highly developed industry. (500,000 tourists a year). Other industries: rum, textiles, processing of sugar and tea. Mauritius is one of world's leading exporters of woollen knitwear.

Recent Events: In April 2006, one hundred former residents of the Chagos Archipelago-claimed by Mauritius - made a return visit nearly 40 years after being evicted by Britain to make way for a US military base on the island of Diego Garcia. Their legal battle with Britain continues.

Mission in India: Mauritius High Commission, EP-41 Jesus & Mary Marg, Chanakyapuri, New Delhi 110021 Tel: 2410 2161-63; Fax: 2410 2194

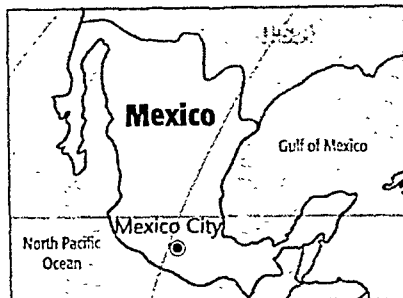
E-mail: mhcmd@bol.net.in

Indian Mission in Mauritius: High Commission of India, 6th Floor, Life Insurance Corporation of India Building, President John Kennedy Street P O Box No. 162, Port Louis, Mauritius. Tel. 00-230-2083775/6, 208331, Fax: 00-230-2086859, 2088891.

E-mail: hicombc@bow.intel.net

114. Mexico

(United Mexican States) Estados Unidos Mexicanos



Capital: Mexico City; **Other Large Cities:** Monterrey, Puebla; **Area:** 1,972,547 sq.km; **Population:** 107,449,525; **Languages:** Spanish, Amerindian languages; **Religions:** Nominally Roman Catholic-89%, Protestant-6%, others-5%; **Literacy:** 92.2%; **Life Expectancy:** 72.63; **Currency:** New Peso (\$1=11.40) (Controlled rate); **p.c.i:** \$ 10,000; **Date of Independence:** 24th September, 1821.

Government Type: Federal Republic; **President & PM:** Vicente Fox Quesada.

History: A federal republic of middle America, Mexico became an independent state in 1821 and a republic in 1823.

Mexico is the only Latin American country not to have a military coup in the post-war period.

Guerrillas of the Zapatista National Liberation Army launched an uprising on Jan. 1, '94 in southern Mexico. A tentative peace accord was reached in March.

Economy: Mexico is not well suited for agriculture so it is obliged to import food. The important agricultural products are maize, rice, wheat, sugar, coffee and cotton. Sea fishing is also important as an occupation. Mexico is the world's leading producer of silver, sulphur and fluorite. Other minerals include coal, zinc, lead, manganese, bauxite and uranium. In recent years, Mexico has become one of the main producers and ex-

porters of petroleum. Main industries: Steel, chemicals, electric goods, textiles, rubber, tourism. In the 1980's Mexico experienced a major economic crisis resulting from inflation, collapse of oil prices and severe unemployment. The devaluation of the peso in 1994 sparked an exodus of capital. A collapse of the currency was prevented by pledges of U.S aid and an austerity plan.

Institutional Revolutionary Party (PRI) was defeated for the first time in 71 years in July, 2000, and Vicente Fox, the Opposition candidate was elected president.

Recent Events: In February 2006, a federal post of special prosecutor was created to tackle violent crime against women. Mexico had been criticised by the UN and rights groups over the unsolved murders of more than 300 women over 12 years in the border city of Ciudad Juarez. In July, conservative candidate Felipe Calderon was declared the winner of presidential elections with a razor-thin majority over his leftist rival, Andres Manuel Lopez Obrador. Obrador challenged the result with mass street protests.

Mission in India: Embassy of Mexico, 26-D, Sardar Patel Marg, Chanakyapuri, New Delhi-110 021. Tel: 24107182-83; Fax: 91-11-24107185.

e-mail: embamexindia@mantraonline.com; Web: www.embamexindia.org

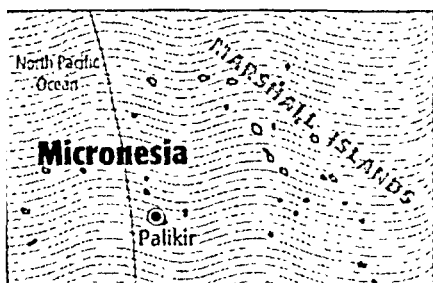
Indian Mission in Mexico: Embassy of India, Avenida Musset 325, Colonia Polanco, C.P. 11550, Mexico D.F. Tel: 00-525-5311050; Fax: 00-525-2542349.

E-mail: indembmx@prodigy.net.mx

115. Micronesia

(Federated States of Micronesia)

Capital: Palikir; **Other Large Cities:** Weno, Tofol; **Area:** 702 sq.km.; **Population:** 108,004; **Languages:** English and local languages; **Religions:** Roman Catholic-50%, Protestant-47%; **Literacy:** 89%; **Life Expectancy:** 70.05;



Currency: US Dollar; p.c.i: \$ 3,900; Date of Independence: 3rd November, 1986.

Government Type: Constitutional Government; President: Joseph J. Urusemal

History: The Federated States of Micronesia (FSM), formerly known as Caroline Islands, extends across the 1,800 mile-long Caroline Island archipelago in the Western Pacific. The 4 states of the FSM are Pohnpei, Kosrae, Truk and Yap. Each state consists of several islands, except for Kosrae, a single island. The islands, 607 in all, vary geologically from high, mountainous islands to low, coral atolls.

The FSM, which came into being on May 10, 1979 was a Trusteeship Territory of the United States. In November 1986 USA entered into a Compact of Free Association with it. Became a full UN member state on Sept. 17, 1991. The USA controls defence and provides financial support.

Economy: Crops: Tropical fruits, vegetables, etc. Industry: Tourism and fishing.

Mission in India: Embassy of the Federated State of Micronesia stationed at Tokyo.

116. Moldova

(Republic of Moldova) Republica Moldovenească

Capital: Chisinau (Formerly Kishinev); Other

Large Cities: Tiraspol, Balti; Area: 33,700

sq km; Population: 4,466,706; Languages:

Romanian, Ukrainian; Religions: Eastern Or-

thodox 93%, Jewish 15%, Baptist and others 0.5%; Literacy 99.7%; Life expectancy



65.65; Currency: The Leu (\$1=13,375); p.c.i: \$ 1,800; Date of Independence: 27th August, 1991.

Government Type: Republic; President: Valdimir Voronin; PM: Vasile Tarlev.

History: A former Soviet republic that became independent in Dec., 1991

Moldova (Moldavia until 1990) has Ukraine and Romania as neighbours. The region was taken from Romania in 1940, the people speak Romanian. In a referendum in March, 1994, Moldovans voted to remain independent, and against any union with Romania. Moldova is a fertile black earth plain. It contained about one-fourth of the former USSR's vineyards.

In May, '97, leaders of Moldova and a break-away region Transnistria (which approved a separate constitution in 1995) signed an agreement to keep Moldova a single state.

Economy: Agriculture: Grain, sugarbeet, vegetables, fruit, grapes. Industry: Wine-making, tobacco, tanning, wood-working, textiles, metallurgy, dairy, TV, fridge, washing machines.

117. Monaco

Principality of Monaco,

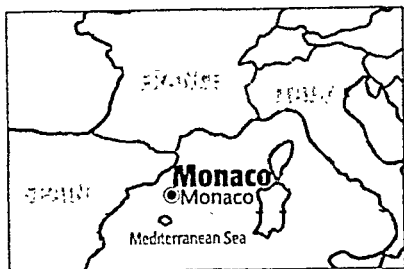
Capital: Monaco; Other Large Cities:

Cote d'Azur; Area: 96 sq km; Popu-

Languages: French, Monaco

Religions: Roman Cat-

99%. Life expectancy:



(\$1=0.79); p.c.i: \$ 27,000; Date of Independence: 1419

Government Type: Constitutional Monarchy; **Head of State:** Prince Albert II; **Head of Govt:** Jean-Paul Proust.

History: Monaco is a sovereign principality on France's south-eastern Mediterranean coast. Of the resident population, 40% are French, 17% Italian and 5% British. Monaco is a member of the U.N.

Economy: The principality is a series of connected towns—Monaco-Ville, La Condamine, Fontvieille and Monte Carlo with its casinos, opera house, grand hotels, shops and villas.

Monaco is a fashionable pleasure resort visited by as many as 1.5 million tourists every year. Its main attractions are the casinos and its international motor sports—the Monte Carlo Rally and the Monaco Grand Prix. Tourism, gambling, and tobacco monopoly are its main sources of income.

There are a number of light industries, such as chemicals, plastics and precision instruments. There were 43 km. of roads in 1995. There is one policeman for every 60 residents.

Recent Events: Prince Rainier III passed away.

Mission in India: Hon. Consulate General of Monaco, DLF Centre, 9th Floor, Sansad Marg, New Delhi-110 001. Tel: 23719202-04 Fax: 23719233.

118. Mongolia

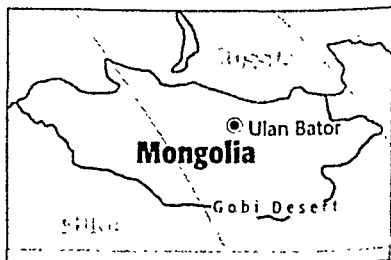
(Mongolian Republic) Mongol Uls
Capital: Ulan Bator; **Other Large Cities :**

Darhan, Erdenet; **Area:** 1,565,000 sq.km; **Population:** 2,832,224; **Languages:** Mongolian; **Religions:** Tibetan Buddhist Lamaism-96%, Muslim (primarily in the south-west), Shamanism and Christian-4%; **Literacy:** 97.8%; **Life Expectancy:** 64.89; **Currency:** Tugrik (\$1=1,170); p.c.i: \$ 1,900; **Date of Independence:** 11th July, 1921.

Government Type: Parliamentary; **President:** Nambaryn Enkhbayar; **PM:** Miegombyn Enkhbold.

History: The Mongolian People's Republic, formerly known as Outer Mongolia, lies in Central Asia with Russia to the north and China to the south, east and west. It is one of the world's oldest countries. Much of the Gobi desert falls within Mongolia. The great Mongol warrior Genghis Khan (1162-1227) founded the Mongol world empire. It became an independent state in 1921. Political opposition was legalised in 1990. In July, Communists won the first free elections to the legislature. The constitution of 1992 abolished the 'People's Democracy', introduced democratic institutions and a market economy and guaranteed freedom of speech. The second free election in 1996 resulted in the defeat of the Communist Party which had ruled Mongolia for over 70 years. A reformist democratic coalition (with 50 seats in the 76-seat Great Hural) came to power.

Economy: Mongolia has been changed from a nomadic culture to one of settled agriculture and growing industries with aid from former USSR and East European nations. Live-



stock-raising is the principal occupation and comprises horses, oxen, sheep, goats and camels. The herdsmen are organised in collectives. State farms practise large-scale agriculture (crops: grains). Minerals include coal, flourspar, tungsten, tin and copper. Industry: Food processing, textiles, chemicals and cement.

Mongolia won admission to the World Trade Organisation in July, 1996-the first transition economy of the old Soviet bloc to join the body as a new member.

Mongolia's former communist rulers won a landslide victory in Parliamentary elections in July, 2000.

Recent Events : In January 2006, coalition government headed by Tsakhiagiin Elbegdorj fell after the MPRP pulled out, blaming the leadership for slow economic growth.

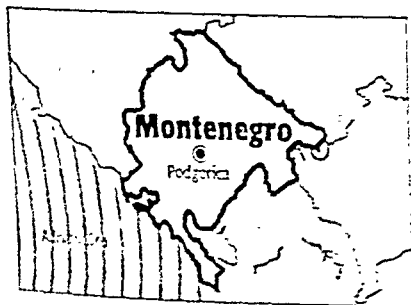
Mission in India: Embassy of Mongolia, 34, Archbishop Makarios Marg, New Delhi-110003. Tel: 24631728, 24617989; Fax: 91-11-24633240. E-mail: mongemb@vsnl.net
Web: mongemb.com

Indian Mission in Mongolia: Embassy of India, Zaluuchudyn Urgun Chuluu 10, C.P.O. Box No. 691, Ulaanbaatar-13, Mongolia. Tel: 00-976-1-329522/24/28; Fax: 00-976-1-329532.

E-mail: indembmongolia@magicnet.mn

119. Montenegro

Capital: Podgorica (administrative capital); Cetinje (capital city); **Other Large Cities:**



Ulcinj, Tivat, Kolasin; **Area:** 14,026 sq.km; **Population:** 630,548; **Languages:** Serbian (Ijekavian dialect - official); **Religions:** Orthodox, Muslim, Roman Catholic; **Literacy:** 97%; **Life Expectancy:** 73; **Currency:** Euro; **p.c.i:** \$ 2,200; **Date of Independence:** 3rd June 2006.

Government Type: Republic; **President:** Filip Vujanovic; **PM:** Milo Djukanovic.

History: Montenegro, the world's newest nation, declared its independence on June 3, 2006. The country got its name (literally, "black mountain") from the dark mountain forests that cover the land. Some 60 per cent of the country is more than 1,000 metres high, with the tallest peak reaching to 2,522 metres. The mountains were a natural fortress that helped Montenegro maintain its independence until it suffered devastating losses in World War I. It became part of Serbia in 1918 and Yugoslavia in 1929.

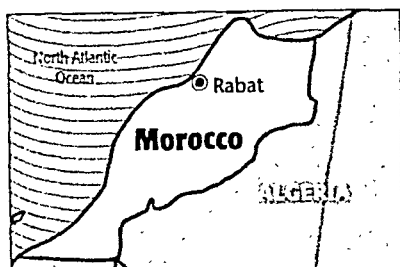
The people of Montenegro gained greater autonomy when the name Yugoslavia was discarded in favour of a democratic and federal country named Serbia and Montenegro. On May 21, 2006, 66.6 per cent of Montenegro voted to secede from Serbia and become independent.

Economy: The economy of Montenegro is based on agriculture and animal husbandry. Important crops include cereals, tobacco, vegetables, grapes, figs and olives. The main industries are lumber milling, salt processing and tobacco processing.

Recent Events : In January 2006, at least 44 people died and nearly 200 were injured when a passenger train crashed into a ravine in Southern Montenegro. In May, Montenegro held independence referendum. Just over required 55% of voters said yes. In June, Montenegro declared independence. Serbia responded by declaring itself the independent sovereign successor state to the Union of Serbia and Montenegro.

120. Morocco

(Kingdom of Morocco) al-Mamlaka al-Maghrebia



Capital: Rabat; **Other Large Cities:** Fez, Marrakech; **Area:** 458,730 sq.km (excluding Western Saharan territory); **Population:** 33,241,259; **Languages:** Arabic, Berber; **Religions:** Muslim-98.7%, Christian-1.1%, Jewish-0.2%; **Literacy:** 51.7%; **Life Expectancy:** 70.94; **Currency:** Dirham (\$1=8.75); **p.c.i:** \$4,200; **Date of Independence:** 2nd March, 1956.

Government Type: Constitutional Monarchy; **Head of State:** King Mohammed VI; **PM:** Driss Jettou.

History: The Kingdom of Morocco, which is a constitutional monarchy, is situated at the extreme northwest of Africa. The Atlas mountains stretch across Morocco.

Morocco recovered its political independence from France on March 2, 1956. The northern strip of Spanish Sahara was ceded by Spain in 1958, and in 1969, the former Spanish province of Ifni was returned to Morocco. In 1976, Morocco added 70,000 sq.km. of phosphate-rich land of former Spanish Sahara to its area.

Economy: Primarily an agricultural country, Morocco produces cereals, including barley, wheat, corn and fruits. Vineyards are abundant and dates form a regular crop. Livestock raising is important and fishing is well-developed. About 500,000 Moroccans rely on fishing as their occupation. The most

which Morocco remains a world supplier. Other minerals are iron ore, coal, lead and manganese. **Industry:** Carpets, clothing, leather goods, mining, sugar, metallurgy, chemicals and tourism. Its foreign debt has made Morocco one of the most indebted countries in the world.

The dispute with Spain on the tiny island Perejil caused some tension in July but it subsided. King Mohammed VI married commoner and computer engineer Salma Bennami in July.

Mission in India: Embassy of the Kingdom of Morocco, 33 Archbishop Makarios Marg, New Delhi-110003. Tel: 24636920/21 & 24636924 (Visa); Fax: 24636925.

E-mail: sifamand@giasd101.vsnl.net.in

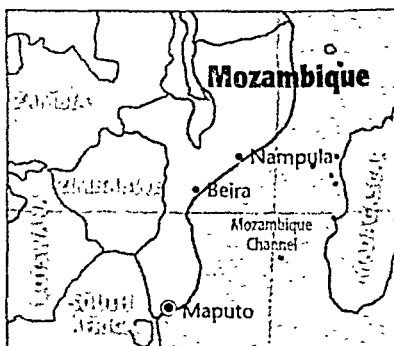
Web: www.moroccoembindia.com

Indian Mission in Morocco: Embassy of India, 13, Charia Michlifien, Agdal, Rabat, Morocco. Tel: 00-212-3-7671339, 7675974/5; Fax: 00-212-3-7671269.

E-mail: india@maghrebnet.net.ma

121. Mozambique

(Republic of Mozambique) Republica de Mocambique



Capital: Maputo; **Other Large Cities:** Beira, Nampula; **Area:** 783,030 sq.km; **Population:**

Bantu; Religions: Catholic-23.8%, Zionist Christian-17.5%, Muslim-17.8%, other-17.8%, none-23.1%; Literacy: 47.8%; Life Expectancy: 39.8; Currency: Metical (\$1=25733.7); p.c.i: \$ 1,200; Date of Independence: 25th June, 1975.

Government Type: Republic; **President:** Armando Guebuza; **PM:** Luisa Diogo.

History: Mozambique is the old Portuguese East Africa. Became independent on June 25, 1975, after 470 years of Portuguese colonial rule. Mozambique Channel of the Indian Ocean bounds it in the east. The majority of the population belongs to the Bantu tribe. The Zambezi is the largest of the 25 rivers that flow into the Indian Ocean.

In 1974, Frelimo (Front for the Liberation of Mozambique) took over local administration. The 1980's witnessed severe drought, famine, civil war and heavy loss of life. According to a study by Washington-based Population Crisis Committee, Mozambique was the place with the highest human suffering in 1992.

Agreement was reached in Oct. '92 between government and the rightist Renamo (Mozambican National Resistance Movement) guerrilla group for a ceasefire in their 15-year war, which killed more than 600,000, drove 1 million people into exile and left half the population in need of donated food. The treaty provided for all weapons to be handed over to UN. The UN presence ended in Jan. '95. Elections took place in 1994.

Economy: The economy is based on agriculture. The major cash crops are cashewnuts, sugar, cotton and sisal. Maize, bananas, rice, groundnuts, vegetables and coconuts are also grown. Considerable mineral resources exist although only coal, diamonds and bauxite are now exploited. Mozambique has two-thirds of the world's known reserves of tantalite and is the second largest producer of beryl. **Industry:** Steel, cement, engineering, textiles and petroleum products.

Missions in India: High Commission of the Republic of Mozambique, B-3/24, Vasant Vihar, New Delhi - 110057. Tel: 26156663/4; Fax: 26156665;

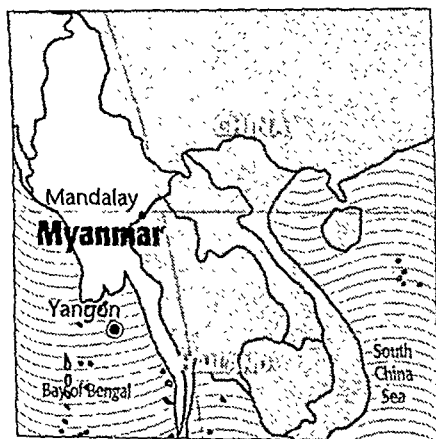
E-mail: hcmozind@hclinfinet.com

Indian Mission in Mozambique: High Commission of India, Avineda Kenneth Kaunda No. 167, P.O. Box No. 4751, Maputo, Mozambique. Tel: 00-258-1-492437, 490717; Fax: 00-258-1-492364.

E-mail: hcimpto@hcoi.uem.mz

122. Myanmar

(Union of Myanmar) Pyeidaungzu Myanma Naingangandaw



Capital: Seat of government moving to Naypyidaw, also known as Pyinmana, from Rangoon (Yangon); **Other Large Cities :** Mandalay, Bassein; **Area:** 676,553 sq.km; **Population:** 47,382,633; **Languages:** Burmese, Karen, Shan; **Religions:** Buddhist-89%, Christian-4% (Baptist-3%, Roman Catholic-1%), Muslim-4%, animist-1%, others-2%; **Literacy:** 85.3%; **Life Expectancy:** 60.97; **Currency:** Kyat. (\$1 =6.42) p.c.i: \$ 1,700; **Date of Independence:** 4th January, 1948.

Government Type: Military Regime; **President:** Gen. Than Shwe; **PM:** Gen. Soe Win.

History: Originally a part of British India.

Union of Myanmar (Burma till May 1989) located between south and south-East Asia, on Bay of Bengal, became an independent country on January 4, 1948.

Gen. Ne Win who ruled Burma with an iron hand for 26 years was forced out in popular uprising in mid-1988. The Armed Forces set up a State Law and Order Restoration council (SLORC). In June 1990, in the first free elections in 30 years, the National League for Democracy won by a big majority but the army was reluctant to hand over power. Aung San Suu Kyi, the leading opposition leader and winner of Nobel Peace Prize, was kept under house arrest from 1989 to '95. The ruling junta has been promising a new Constitution for nearly seven years now but nothing concrete has emerged. Suu Kyi's activities are restricted by the government.

In 1987 UN bestowed the least developed country status on Burma, which was once the richest nation in SE Asia.

Myanmar joined the regional group BISTEC (Bangladesh, India, Sri Lanka, Thailand Economic Cooperation) in July '97, which then became BIMSTEC. In July, '97 ASEAN admitted Myanmar as a member.

Economy: Known as the "rice bowl of the Far East", Myanmar also grows sugarcane, peanuts, and beans. The chief minerals are petroleum, lead, tin, zinc, tungsten, copper, antimony, silver and gems. The rubies, sapphires and jade found in Myanmar are especially famous. Teakwood is exported.

Recent Events: Aung San Suu Kyi turned 60. UN called for her release • Former Prime Minister Khin Nyunt received a 44-year suspended sentence after being convicted on eight charges including bribery and corruption.

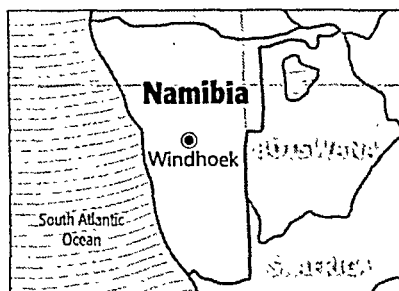
Mission in India: Embassy of the Union of Myanmar, 3/50F, Nyaya Marg, Chanakya-puri, New Delhi-110021. Tel: 26889007-08; Telefax:26877942.

E-mail:myadeli@nda.vsnl.net.in Web: myandel.com

Indian Mission in Myanmar: Embassy of India, No. 545-547, Merchant Street, Post Box No. 751, Yangon, Myanmar. Tel: 00-95-1-240633, 243972, 282552; Fax: 00-95-1-254086/ 250164.

123. Namibia

Capital: Windhoek; **Area:** 826,700 sq.km;



Population: 2,044,147; **Languages:** English, Afrikaans, German, several indigenous languages; **Religions:** Christian-80-90% (at least Lutheran), Indigenous beliefs-10-20%; **Literacy:** 84%; **Life Expectancy:** 43.39; **Currency:** Dollar (\$1=6.846); **p.c.i:** \$ 7,000; **Date of Independence:** 21st March, 1990.

Government Type: Republic; **President:** Hifikepunye Pohamba; **PM:** Nahas Angula.

History: Namibia, formerly known as South West Africa, lies on the Atlantic coast of South Africa. After prolonged insurgency a peace accord was signed on 5th October, 1988 by Angola, Cuba and South Africa, and Namibia became a fully independent nation under the UN mandate on 21 March, 1990. The first general elections for a Constituent Assembly were held in November 1989 when SWAPO (South West Africa People's Organisation) which spearheaded the freedom struggle for 30 years was swept to power.

Walvis Bay and the off-shore islands were transferred to Namibian sovereignty on Feb. 28, 1994.

Economy: Diamonds are Namibia's most

able economic asset followed by copper, iron, zinc, lead, germanium and manganese. Stock-breeding is important; cattle, sheep and goats abound. Fishing is a supplementary source of food and income. Food crops include corn, millet and sorghum. Industry: Canning, textiles, leather, dairy. GDP major sectors: agriculture: 11%, industry 36, and services 61%.

Population growth rate is 3% per annum. The country has a wide variety of tourist attractions mainly in the form of spectacular scenery and wildlife reserves. Walvis Bay and Idititz are the two harbours.

Recent Events : In June 2006, a national anti-polio vaccination campaign was launched following the death of at least 12 people from the disease.

Mission in India: High Commission of the Republic of Namibia, A-2/6, Vasant Vihar, New Delhi-110057; Tel: 26140389/0890/4772; Fax: 26146120/26155482;

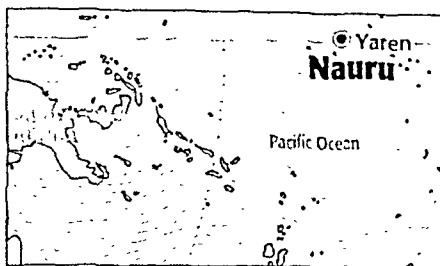
E-mail: nhcdelhi@del2.vsnl.net.in

Consulate: Mumbai: Tel: 56657272/56658027, Fax: 56658028,

E-mail: syamalgupta@tata.com

Indian Mission in Namibia: High Commission of India, 97, Nelson Mandela House, P.O. Box 1209, Windhoek, 9000, Namibia. Tel: 00-264-61-226037, 228433; Fax: 00-264-61-237320.

E-mail: hicomind@mweb.com.na



History: Nauru, a small coral island in the central Pacific, just 42 km. south of the equator is world's smallest republic. It is an oval-shaped coral island of approximately 20 km in length, surrounded by a reef which is exposed at low tide. Nauru became a republic on Jan. 31, 1968. It has an 18-member Parliament, elected on a 3-yearly basis.

About four-fifths of Nauru is phosphate-bearing rock, which accounts for 98% of its exports. It is estimated that the phosphate deposits will be exhausted by 2008.

The world's smallest democracy once had one of the highest per capita incomes in the world, but depleted phosphate mines and bad investments have left it economically bereft.

Mission in India: Honorary Consulate General of Nauru, S-327, Greater Kailash -1, New Delhi-110048. Tel: 26414744/26215780; Fax: 262157780.

E-mail: kartarbhalla@hotmail.com

124. Nauru

(Republic of Nauru) Naoero

Capital: Yaren district; **Area:** 21.1 sq.km; **Population:** 13,287; **Languages:** English and Nauruan; **Religions:** Christian (two-thirds Protestant, one-third Roman Catholic); **Life Expectancy:** 63.08; **Currency:** Australian Dollar (\$1=1.35446); **p.c.i.:** \$ 5,000; **Date of Independence:** 31st January, 1968.

Government Type: Republic; **Head of State & Govt (President):** Ludwig Scotty.

125. Nepal

(Kingdom of Nepal) Nepal Adhirajya

Capital: Kathmandu; **Other Large Cities :** Biratnagar, Lalitpur; **Area:** 147,181 sq.km.; **Population:** 26,267,147; **Languages:** Nepali, Maithiri, Bhojpuri etc.; **Religions:** Hindu-80.6%, Buddhist-10.7%, Muslim-4.2%, Kirant-3.6%, others-0.9%. Nepal is the only official Hindu state in the world; **Literacy:** 48.6%; **Life Expectancy:** 60.18; **Currency:** Nepalese Rupee (US \$1=73.344); **p.c.i.:** \$ 1,400; **Date of Independence:** 1768.



Government Type: Parliamentary Democracy; **Head of State:** King Gyanendra Bir Bikram Shah, **PM:** Girija Prasad Koirala.

The Kingdom of Nepal (Nepal Adhirajya) is a land-locked Asian country in the Himalaya mountain range. It is bounded on the north by Tibet, on the east by Sikkim and West Bengal, on the south and west by Bihar and Uttar Pradesh.

History: From 1846 to 1951 Nepal was virtually ruled by the Rana family, a member of which always held the office of prime minister, the succession being determined by special rules. The last Rana prime minister resigned in Nov. 1951. The 15 feudal chieftainships were integrated into the kingdom on 10 April 1961.

Following pro-democracy demonstrations on 16 April 1990 King Birendra dismissed the government and proclaimed the abolition of the panchayat system of nominated councils. On 9 November 1990, the King proclaimed a constitution by which he relinquished his absolute powers.

Under the constitution of 9 Nov. 1990 Nepal became a constitutional monarchy based on multi-party democracy. Parliament has 2 chambers: a 205-member House of Representatives (Pratinidhi Sabha), of which 10 members are nominated by the king.

The country is administratively divided into 14 zones, subdivided into 75 districts and over 3,500 villages.

Economy: Nepal is among the poorest and least developed countries in the world with

nearly half of its population living below the poverty line. Agriculture is the mainstay of the economy, providing a livelihood for over 80% of the population and accounting for 41% of GDP. Textile and carpet production, accounting for about 80% of foreign exchange earnings in recent years, contracted significantly in 2001 due to the world economic slump and pressures by Maoist insurgents on factory owners and workers.

Industry contributes about 22% of Nepal's GDP. Its major trading partner is India. Principal exports are food grains, jute, timber, oilseeds, ghee (clarified butter), potatoes, medicinal herbs, skins and cattle. The chief imports are textiles, cigarettes, salt, petrol and kerosene, sugar, machinery, medicines, boots and shoes, paper, cement, iron, steel and tea.

Tourism is the second largest industry. It is being developed by the construction of new tourist centres in the Kathmandu valley. Regular air services link Kathmandu with Pokhara Lake. Major tourist attractions include Lumbini, the birthplace of Buddha, and the Himalaya mountain range including Mount Everest, the world's highest peak. About 30 per cent of tourists are from India.

Government has a poverty reduction scheme whereby poverty is to be brought down to 10% in the 12th plan.

In Feb. '96, India and Nepal signed two agreements including an initiative for sharing of water and electricity from the Mahakali river.

King Birendra (brother of King Gyanendra), Queen Aishwarya and six other members of the royal family were assassinated on June 1, 2001.

Recent Events: In April 2006, an opposition alliance called off weeks of strikes and protests against the direct rule of the king after the monarch agreed to reinstate parliament. G.P. Koirala was appointed prime minister. Maoist rebels called a three-month

mously to curtail the king's political powers. Rebel leader Prachanda and PM Koirala held talks - the first such meeting between the two sides - and agreed that the Maoists should be brought into an interim government.

Mission in India: Royal Nepalese Embassy, Barakhamba Road, New Delhi - 110001. Tel: 23329969, 23329218; Fax: 23326857, 3329647.

E-mail: ramjanki@del3.vsnl.net.in

Indian Mission in Nepal: Embassy of India, Lain Chaur, Post Box No. 292, Kathmandu, Nepal. Tel: 00-977-1-410900; Fax: 00-977-1-413132, 420130.

E-mail: indemb@mos.com.np

126. The Netherlands

(Kingdom of the Netherlands) Koninkrijk der Nederlanden



Capital: Amsterdam (Seat of Govt: The Hague); **Other Large Cities :** Rotterdam, Utrecht; **Area:** 41,160 sq.km; **Population:** 16,491,461; **Languages:** Dutch; **Religions:** Dutch Reformed-13%, Calvinist-7%, Muslim-5.5%, others-2.5%, none-41%; **Literacy:** 99%; **Life Expectancy:** 78.96; **Currency:** Euro (\$1= 0.79); **p.c.i:** \$ 30,500; **Date of Independence:** 1579.

Government Type: Constitutional Monarchy; **Head of State:** Queen Beatrix Wilhelmina Amgard; **PM:** Jan Peter Balkenende.

The Kingdom of the Netherlands in North West Europe, on North Sea comprises the

Netherlands and Antilles. The country is plainland with an average height of 11 m. above sea-level. Much of the land, however, is below sea-level and is protected by dykes, which extend to some 2400 km. Netherlands is a member of the European Union.

Economy: The Netherlands is a small, densely populated and highly developed country. Agriculture has been mechanised and developed. Crops: Grains, potatoes, sugarbeets, fruits, flowers. Foodstuffs form the largest industrial sector. Dairy products account for one-quarter of exports. Other major industries include chemicals, metallurgy, machinery, electrical goods and tourism. Netherlands is one of the world's 10 leading exporting countries. Service sector contributes 71% of GDP, industry 26% and agriculture and fisheries 3%. Amsterdam is famous as a world centre for diamonds, precious metals and art treasures. Rotterdam, along the Rhine, handles the most cargo of any ocean port in the world. The Netherlands attracts 5m. tourists every year.

Recent Events: In February 2006, parliament agreed to send an additional 1,400 Dutch troops to join Nato-led forces in Southern Afghanistan. The decision came after weeks of wrangling and international pressure.

Mission in India: Royal Netherlands Embassy, 6/50 F, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 2688 4951-54; Fax: 91-11-24103091 (Consular/Visa)

E-mail: nde@minbuza.nl; Web: holland-in-india.org

Indian Mission in Netherlands: Embassy of India, Buitenrustweg -2, 2517 KD, The Hague, Netherlands. Tel: 00-31-70-3469771; Fax: 00-31-70-3617072.

E-mail: ssembind2bart.nl

Dutch Territories

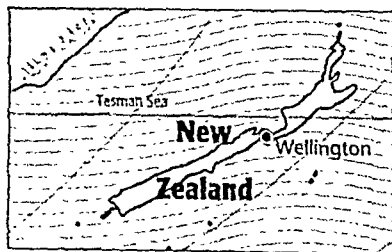
Aruba The island (Area: 193 sq.km., Population: 71,891) which lies in the southern Car-

ibbean, formed part of the Dutch West Indies from 1828 and part of the Netherland Antilles from 1845. Achieved internal self-government in 1954. Aruba was constitutionally separated from the Netherlands Antilles from Jan.1, 1986, and full independence was promised after a 10-year period. But an agreement of 1990 deleted references to eventual independence. Capital: Oranjestad. PM: Nelson O. Oduber.

The Netherlands Antilles (Area: 800 sq.km., Population: 221,736) comprise two groups of islands in the West Indies, the Leeward group (Curacao and Bonaire) and the Windward Islands. In 1954, they became an integral part of the Netherlands but are fully autonomous in internal affairs. Capital: Willemstad; Governor General: Frits Goedgedrag; PM: Etienne YS.

127. New Zealand

Capital: Wellington; Other Large Cities: Auckland, Christchurch, Hamilton; Area:



269,057 sq.km (excluding dependencies); Population: 4,076,140; Languages: English and Maori dialect; Religions: Anglican-14.9%, Presbyterian-10.9%, Roman Catholic-12.4%, Methodist-2.9%, Baptist-1.3%, Pentecostal-1.7%, other Christian-9.4%, other-3.3%, Unspecified-17.2%, none-26%; Literacy: 99%; Life Expectancy: 78.81; Currency: New Zealand Dollar (\$1=1.616); p.c.i: \$ 25,200; Date of Independence: 26th September, 1907.

Government Type: Parliamentary Democracy; **Head of State:** Queen Elizabeth II; **Gov.Gen:** Dame Silvia Cartwright; **PM:** Ms. Helen Clark.

History: New Zealand, lying in the South Pacific Ocean with Tasman Sea on the west, consists of two large islands, North Island and South Island and numerous small islands. British sovereignty was proclaimed in 1840, with organised settlement beginning in the same year. The colony became a dominion in 1907.

The native Maoris, who reached New Zealand before and during the 14th century, number about 550,000. Six members of Parliament are elected directly by them.

New Zealand plans to do away with the right of appeal to the Privy Council in London - a milestone in the country's exercise to ultimately become a Republic.

The Labour Party won the general election in 1999.

Economy: The major crops are wheat, maize, oats and barley. Minerals include coal, oil and gold. Primary industries are dairying, meat and wool. Pulp and paper industry is highly developed. Iron, steel, aluminium, textiles, transport equipment are other industries.

Recent Events: In May 2006, New Zealand troops joined an intervention force in East Timor, intended to quell unrest. In August, queen of the indigenous Maori population, Te Arkinui Dame Te Atairangikaahu, died aged 75 after a reign of 40 years.

Mission in India: High Commission for New Zealand, Sir Edmund Hillary Marg, Chanakyapuri, New Delhi-110 021. Tel: 2688 3170; Fax: 26883165,

E-mail: nzhc@ndf.vsnl.net.in

Indian Mission in New Zealand: High Commission of India, 180, Molesworth Street, P.O. Box 4045, Wellington, New Zealand. Tel: 00-64-4-4736390; Fax: 00-64-4-4990665.

E-mail: hicomind@clear.net.nz

Overseas Territories

Cook Islands and Niue are self-governing territories overseas and Ross Dependency and Tokelau are territories overseas lying within New Zealand's jurisdiction.

Cook Islands: (241 sq.km.) were placed under New Zealand administration in 1915 and they achieved self-governing status in association with New Zealand in 1965; Population: 21,388

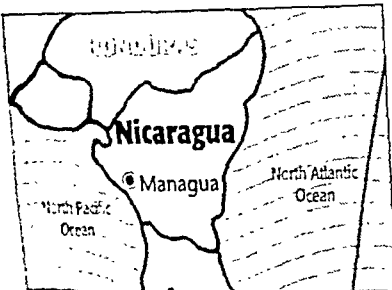
Niue (259 sq.km.), formerly administered as part of Cook Islands, achieved self-governing status in association with New Zealand in 1974. Niue is the largest uplifted coral island in the world. Population: 2,166.

The Ross Dependency: (414,400 sq.km.), an Antarctic region, was placed under New Zealand administration in 1923.

Tokelau: (10 sq.km.) was placed under New Zealand administration in 1925. Population: 1,405.

128. Nicaragua

(Republic of Nicaragua) Republica de Nicaragua



Capital: Managua; **Other Large Cities :** Leon, Granada; **Area:** 130,000 sq.km; **Population:** 5,570,129; **Languages:** Spanish and English; **Religions:** Roman Catholic-85%, Protestant; **Literacy:** 67.5%; **Life Expectancy:** 70.63; **Currency:** Gold Cordoba (NIO) (\$1=17.18); **p.c.i.:** \$ 2,900; **Date of Independence:** 15th September, 1821.

Government Type: Republic; **Head of State & Govt.:** Enrique Bolanos.

History: The republic of Nicaragua is located in the heart of Central America. It is the largest but most sparsely populated of the Central American nations. It became an independent state in 1838. The Somoza dynasty ruled Nicaragua from 1933 to 1979.

The third Somoza was overthrown by an armed revolution led by Sandinista National Liberation Front, which emerged as the leading political force in the election held in 1984. But Contra rebels, comprising mainly former members of Nicaraguan National Guard and supported by the U.S. waged a nine-year war against the government led by Sandinista leader Daniel Ortega. About 30,000 people were killed. With the defeat of Ortega by Violeta Chamorro in the elections held in 1990, the civil war came to a close.

Economy: Agriculture is the principal source of national income. The most important agricultural products are cotton, coffee, sugar-cane, rice, bananas, maize and fruit. Chief industries are food processing, chemicals, matches, leather, beer and plastic goods. Gold, copper, silver, lead and zinc are found.

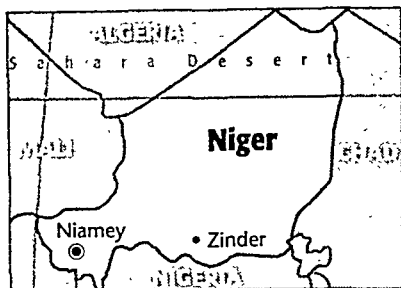
Mission in India: Embassy of Nicaragua Stationed at Panama.

Hon. Consulate, 43-A, Prithviraj Road, New Delhi-110011. Tel: 4694469; Telefax: 3221173.

E-mail: vcb@dabur.com

129. Niger

(Republic of Niger) Republique du Niger
Capital: Niamey; **Other Large Cities :** Zinder, Maradi; **Area:** 1,267,000 sq.km; **Population:** 12,525,094; **Languages:** French, Hausa and Djerma; **Religions:** Muslim-80%, remainder indigenous beliefs and Christian; **Literacy:** 17.6% (1995); **Life Expectancy:** 43.76; **Currency:** CFA Franc (\$ 1=518.98); **p.c.i.:** \$ 900;



Date of Independence: 3rd August, 1960.

Government Type: Republic; **President:** Tandja Mamadou; **PM:** Hama Amadou.

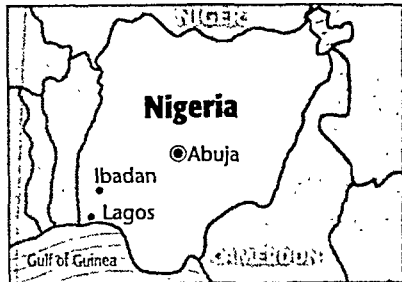
History: The Republic of Niger lies in the heart of West Africa. Formerly part of French West Africa, Niger became fully independent on Aug. 3, 1960.

A new constitution was adopted by referendum in Dec. '92. Niger's first democratically elected President Mahamane Ousmane was ousted in a coup in January, 1996 by military ruler Ibrahim Mainassara. Elections were held in 1999.

Economy: Niger is an agricultural country with very limited resources. The principal crops are millet, peanuts and cotton. Cattle-breeding is the next most important occupation of the people. Minerals: uranium, coal, iron.

Recent Events: In June 2006, Unions called a national strike to protest against the high cost of living. Health and education ministers were sacked following pressure from donors who alleged corruption.

Mission in India: Embassy of Niger Stationed at Moscow.



68%; **Life Expectancy:** 47.08; **Currency:** Naira (\$1=128.3); **p.c.i:** \$ 1,400; **Date of Independence:** 1st October, 1960.

Government Type: Republic; **Head of State & Govt (President):** Gen. Olusegun Obasanjo.

The Federation of Nigeria on the south coast of West Africa is black Africa's most populous nation. It is a country of 250 tribal groups.

History: Nigeria became an independent state in 1960 and a republic within the Commonwealth in Oct. 1963. Nigerians have seen seven coups in 32 years. Military has ruled the country for 30 of its 40 years of independence.

The chief agricultural products are cocoa, palm oil, palm kernels, grains, fish, cotton, rubber, peanuts and skins. Tin, lead, columbite, coal and iron ore are the chief minerals. Timber, hides and skins, cocoa and palm products are major export items. Crude oil exports have become important since 1970. Oil revenues have made possible a massive economic development programme, but agriculture has lagged. Industry is diversified:- beer, cement, textiles, cigarettes, assembly of vehicles, soap, canned food and aluminium products being the main items. In the early 80s, with a civilian govt. in Lagos, Nigeria became a model of African democracy and prosperity. The civilian govt. was ousted in 1983.

On May 29, 1999 Olusegun Obasanjo, who was elected in February polls, became Nigeria's third civilian President since inde-

130. Nigeria

(Federal Republic of Nigeria)

Capital: Abuja; **Other Large Cities :** Lagos, Ibadan; **Area:** 923,768 sq.km; **Population:** 131,859,731; **Languages:** English, Hausa, Ibo and Yoruba; **Religions:** Muslim-50%, Christian-40%, indigenous beliefs-10%; **Literacy:**

pendence, following Nnamdi Azikiwe and Shehu Shagari, ending 15 years of military rule in the country.

The execution of writer and environmentalist Ken Saro-Wiva and eight associates in Nov. 1995 led to international sanctions against Nigeria, including suspension of its Commonwealth membership.

Nigeria has fallen into steep decline. Unemployment has soared. Inflation is high. Purchasing power of most Nigerians has reached subsistence levels.

Recent Events : Militants in the Niger Delta attacked pipelines and other oil facilities and kidnapped foreign oil workers. The rebels demanded more control over the region's oil wealth. In February, more than 100 people were killed when religious violence flared in mainly-Muslim towns in the north and in the southern city of Onitsha. In April, helped by record oil prices, Nigeria became the first African nation to pay off its debt to the Paris Club of rich leaders. More than 150 people were killed in an explosion at an oil pipeline near Lagos. The Senate rejected proposed changes to the constitution which would have allowed President Obasanjo to stand for a third term in 2007. In June, Nigeria agreed to withdraw its troops from the Bakassi Peninsula to settle its long-running border dispute with Cameroon. The breakthrough was reached at UN-mediated summit.

Mission in India: High Commission of the Federal Republic of Nigeria, 21 Olof Palme Marg, Vasant Vihar, New Delhi-110057. Tel: 2614 6221, 2614 6645; Fax: 2614 6617.

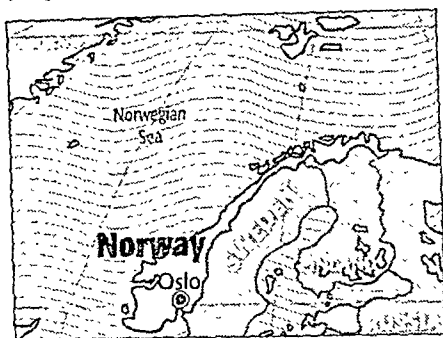
E-mail: nhcnd@nde.vsnl.in Web: www.nigeriadelhi.com

Indian Mission in Nigeria: High Commission of India, 8-A, Eleke Crescent, Victoria Island, Lagos, Nigeria. Tel: 00-234-1-2616604, 2615078, 2615905. Fax: 00-234-1-2612660.

E-mail: hicomindfssimbaonline.net

131. Norway

(Kingdom of Norway) Kongeriket Norge



Capital: Oslo; **Other Large Cities :** Bergen, Trondheim; **Area:** 323,895 sq.km; **Population:** 4,610,820; **Languages:** Norwegian; **Religions:** Church of Norway-85.7%, Pentecostal-1%, Roman Catholic-1%, other Christian-2.4%, Muslim-1.8%, Other- 8.1%; **Literacy:** 100%; **Life Expectancy:** 79.54; **Currency:** Krone (\$1=6.208); **p.c.i:** \$ 42,300; **Date of Independence:** 7th June, 1905.

Government Type: Constitutional Monarchy; **Head of State:** King Harald V; **PM:** Jens Stoltenberg.

History: Norway in North-West Europe occupies the western part of the Scandinavian Peninsula. It is known as the Land of the Midnight Sun, because in North Cape area, the sun does not set from middle May until the end of July, nor does it rise above the horizon from the end of November to the end of January. Nearly 70% of Norway is uninhabitable and covered by mountains, moors, glaciers and rivers. The largest lake is Mjosa; longest river Glomma; highest mountain Galdhøpiggen.

Norway is a constitutional and hereditary monarchy.

Almost three-quarters of the population live in the major towns and cities. Life expectancy-men 75 years, women-81 years.

The Sami, the indigenous people of the far north, number some 30,000 and form a distinct ethnic minority.

Economy: The important agricultural products are barley, oats, rye, potatoes, fruits and dairy products. Fishing is a major occupation with immense quantities of cod, herring, whale, tuna, seal, mackerel and salmon. Forests provide raw material for many industries. Mining is an important industry. There is very little coal but plenty of hydro-electric power to run big factories. High degree of industrialisation, the base for which was provided by abundant hydroelectric resources, has given Norwegians one of the highest living standards in the world. The principal manufactures are food products, machinery and metal work, wood, paper and pulp, aluminium, electro-chemical products, ships and transportation equipment. Norway is one of world's largest producers of chemical fertiliser. It possesses a large merchant marine. Norway is the world's third-largest exporter of oil, and relies on the black stuff for 200,000 jobs.

The Nobel Peace Prize is awarded every year in Oslo on December 10.

Since the mid-1980s, more than 40% of the members of the Government have been women. In 1993, the first woman bishop was appointed in Norway. Norway has led the way in building a modern welfare state.

Dependencies of Norway: Svalbard (62,700 sq.km), Jan Mayen (380 sq.km.), Bouvet Island (60 sq.km.), Peter I Island (249 sq.km.), and Queen Maud Land.

Mission in India: Royal Norwegian Embassy, Shantipath, Chanakyapuri, New Delhi-110 021. Tel: 26873532, 26873142; Fax: 011-26873814.

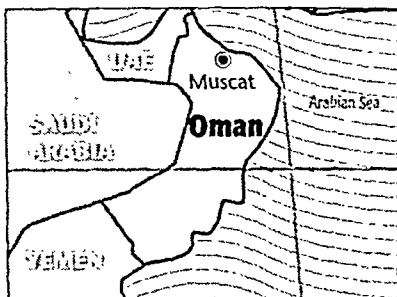
E-mail: noramb@vsnl.com

Indian Mission in Norway: Embassy of India, Niels Juels Gate 30, 0244 Oslo 2, Norway. Tel: 00-47-22443194, 22552229; Fax: 00-47-22440720.

E-mail: iamasade@online.no/india@on line.no

132. Oman

(Sultanate of Oman) Saltanat' Uman



Capital: Muscat; **Area:** 300,000 sq.km; **Population:** 3,102,229; **Languages:** Arabic; **Religions:** Ibadhi Muslim-75%, Sunni Muslim, Shi'a Muslim, Hindu; **Literacy:** 75.8%; **Life Expectancy:** 73.37; **Currency:** Rial Omani (\$1=0.385); **p.c.i:** \$ 13,200; **Date of Independence:** 1650.

Government Type: Monarchy; **Head of State & Govt:** Sultan Qabus Bin Said.

History: The Sultanate of Oman, formerly Muscat & Oman, occupies the south-eastern part of the Arabian Peninsula. Oman adopted the present name in 1970.

Economy: Oil is the major source of income. It forms 95% of the exports. As there is water, the land is very fertile. The coastal plain is famous for its fruits and grains. Major industries are oil drilling, fishing and construction.

The sultanate has spent its oil resources judiciously and made careful use of its natural advantages, such as its prime position at an important trade route. The giant port and free zone it has built at Salalah is set to capture a growing share of the Indian Ocean transshipment business.

The Kuria Muria Islands, formerly part of Oman, were given to Oman by the British in 1913.

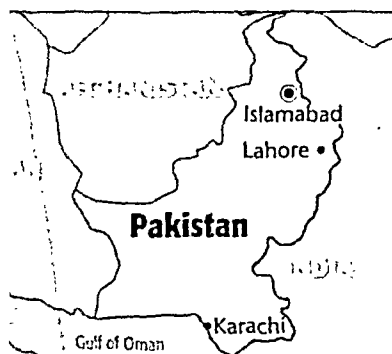
Mission in India: Embassy of the Sultanate of Oman, EP 10&11, Chandragupta, Chanakyapuri, New Delhi-110 021. 26885622, 26885623, 26885624, 26885625, 26885626, 26885627, 26885628, 26885629, 26885630, 26885631, 26885632, 26885633, 26885634, 26885635, 26885636, 26885637, 26885638, 26885639, 26885640, 26885641, 26885642, 26885643, 26885644, 26885645, 26885646, 26885647, 26885648, 26885649, 26885650, 26885651, 26885652, 26885653, 26885654, 26885655, 26885656, 26885657, 26885658, 26885659, 26885660, 26885661, 26885662, 26885663, 26885664, 26885665, 26885666, 26885667, 26885668, 26885669, 26885670, 26885671, 26885672, 26885673, 26885674, 26885675, 26885676, 26885677, 26885678, 26885679, 26885680, 26885681, 26885682, 26885683, 26885684, 26885685, 26885686, 26885687, 26885688, 26885689, 26885690, 26885691, 26885692, 26885693, 26885694, 26885695, 26885696, 26885697, 26885698, 26885699, 26885700, 26885701, 26885702, 26885703, 26885704, 26885705, 26885706, 26885707, 26885708, 26885709, 26885710, 26885711, 26885712, 26885713, 26885714, 26885715, 26885716, 26885717, 26885718, 26885719, 26885720, 26885721, 26885722, 26885723, 26885724, 26885725, 26885726, 26885727, 26885728, 26885729, 26885730, 26885731, 26885732, 26885733, 26885734, 26885735, 26885736, 26885737, 26885738, 26885739, 26885740, 26885741, 26885742, 26885743, 26885744, 26885745, 26885746, 26885747, 26885748, 26885749, 26885750, 26885751, 26885752, 26885753, 26885754, 26885755, 26885756, 26885757, 26885758, 26885759, 26885760, 26885761, 26885762, 26885763, 26885764, 26885765, 26885766, 26885767, 26885768, 26885769, 26885770, 26885771, 26885772, 26885773, 26885774, 26885775, 26885776, 26885777, 26885778, 26885779, 26885780, 26885781, 26885782, 26885783, 26885784, 26885785, 26885786, 26885787, 26885788, 26885789, 26885790, 26885791, 26885792, 26885793, 26885794, 26885795, 26885796, 26885797, 26885798, 26885799, 26885800, 26885801, 26885802, 26885803, 26885804, 26885805, 26885806, 26885807, 26885808, 26885809, 26885810, 26885811, 26885812, 26885813, 26885814, 26885815, 26885816, 26885817, 26885818, 26885819, 26885820, 26885821, 26885822, 26885823, 26885824, 26885825, 26885826, 26885827, 26885828, 26885829, 26885830, 26885831, 26885832, 26885833, 26885834, 26885835, 26885836, 26885837, 26885838, 26885839, 26885840, 26885841, 26885842, 26885843, 26885844, 26885845, 26885846, 26885847, 26885848, 26885849, 26885850, 26885851, 26885852, 26885853, 26885854, 26885855, 26885856, 26885857, 26885858, 26885859, 26885860, 26885861, 26885862, 26885863, 26885864, 26885865, 26885866, 26885867, 26885868, 26885869, 26885870, 26885871, 26885872, 26885873, 26885874, 26885875, 26885876, 26885877, 26885878, 26885879, 26885880, 26885881, 26885882, 26885883, 26885884, 26885885, 26885886, 26885887, 26885888, 26885889, 26885890, 26885891, 26885892, 26885893, 26885894, 26885895, 26885896, 26885897, 26885898, 26885899, 26885900, 26885901, 26885902, 26885903, 26885904, 26885905, 26885906, 26885907, 26885908, 26885909, 26885910, 26885911, 26885912, 26885913, 26885914, 26885915, 26885916, 26885917, 26885918, 26885919, 26885920, 26885921, 26885922, 26885923, 26885924, 26885925, 26885926, 26885927, 26885928, 26885929, 26885930, 26885931, 26885932, 26885933, 26885934, 26885935, 26885936, 26885937, 26885938, 26885939, 26885940, 26885941, 26885942, 26885943, 26885944, 26885945, 26885946, 26885947, 26885948, 26885949, 26885950, 26885951, 26885952, 26885953, 26885954, 26885955, 26885956, 26885957, 26885958, 26885959, 26885960, 26885961, 26885962, 26885963, 26885964, 26885965, 26885966, 26885967, 26885968, 26885969, 26885970, 26885971, 26885972, 26885973, 26885974, 26885975, 26885976, 26885977, 26885978, 26885979, 26885980, 26885981, 26885982, 26885983, 26885984, 26885985, 26885986, 26885987, 26885988, 26885989, 26885990, 26885991, 26885992, 26885993, 26885994, 26885995, 26885996, 26885997, 26885998, 26885999, 26886000.

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3. Pakistan

Islamic Republic of Pakistan) Islam-iuriya-e Pakistan



Ital: Islamabad; **Other Large Cities :** Karachi, Lahore, Peshawar; **Area:** 796,095 sq km; **Population:** 165,803,560; **Languages:** Urdu (Official), Punjabi, Sindhi, Pushtu, Pashto, Baluchi, Brahui, English; **Religions:** Muslim-96% (Sunni-77%, Shi'a-20%), Christian, Hindu and others-3%; **Literacy:** 48.7%; **Life expectancy:** 63.39; **Currency:** Rupees (US \$1=23); **p.c.i:** \$2,400; **Date of Independence:** 31 August, 1947.

Government Type: Federal Republic; **President:** General Pervez Musharraf; **PM:** Shaukat Aziz.

The Islamic Republic of Pakistan is bordered to the north-west by Afghanistan, north by the former USSR and China, east by India and south by the Arabian Sea.

History: The Muslim state that emerged after the partition of British India on 14 August 1947 included an eastern wing comprising mainly the eastern half of Bengal province and parts of Assam. (The name Pakistan is a composite image representing 'Punjab, the Afghan

border states, Kashmir, Sind and Baluchistan').

For nine years Pakistan remained a dominion. It was proclaimed an Islamic republic on 23 March 1956. A federal parliamentary system functioned until Field-Marshal Muhammad Ayub Khan seized power in a coup in October 1958. Ayub proclaimed a presidential system in the constitution of 1962 and ruled until March 1969, when he was deposed by Gen. Yahya Khan.

In the first free elections in December 1970, Zulfikar Ali Bhutto's Pakistan People's Party dominated the west, while Sheikh Mujibur Rahman's Awami League swept the board in the east, winning 160 of the 162 seats.

East Pakistan proclaimed sovereignty and formed the People's Republic of Bangladesh on 26 March 1971. Civil war followed after Yahya, supported by Bhutto, ordered troops to arrest Mujib and put down the Bengali uprising. The east-west war ended in December 1971. Yahya handed over power to Bhutto, who ruled until July 1977, before being overthrown after an opposition campaign against alleged rigging in general elections. Gen. Zia-ul-Haq took over—initially to hold elections and transfer power to a civilian regime. But elections were twice postponed and Bhutto was tried for the murder of a political opponent and executed.

Gen. Zia was killed in a plane crash on August 17, 1988 and Senate Chairman Ghulam Ishaq Khan took over as Acting President. The country was placed under emergency rule.

In the general election held on November 16, 1988 the Pakistan Peoples' Party (PPP), led by Benazir Bhutto won the largest number of seats (92). Benazir assumed office as the PM on December 9. Ghulam Ishaq Khan was elected President on December 12.

Benazir was dismissed in August 1990. Nawaz Sharif of Islamic Jamhoori Movement took over as Pakistan's 11th Prime Minister.

November 5. Sharief was dismissed in 1993. The Supreme Court annulled the dismissal leading to a constitutional impasse. Moeen Qureshi took over as caretaker Prime Minister in July. PPP returned to power in Oct. '93 and Ms. Bhutto took over as PM once again. In Apr. '96, Imran Khan launched a new party 'Movement for Social Justice'. In Nov., Ms. Bhutto was dismissed as PM, the National Assembly dissolved, and M.M. Khalid appointed caretaker PM. On Feb. 17, 1997, Nawaz Sharif was sworn in as Pakistan's 13th PM.

Tensions between the military and PM Sharif ended in a coup by army chief Gen. Musharraf on Oct. 12, 1999. Sharif was later exiled to Saudi Arabia. Gen. Musharraf was convicted and sentenced to 25-year imprisonment on charges of hijacking and treason. Pakistan was suspended (Oct. 1999) from the Commonwealth. A major stone in Indo-Pak relations was the withdrawal of Indian PM Vajpayee in Feb.

and communal conflict that had been brewing in Karachi intensified in 1995. Urdu-speaking Muhajirs are demanding provincial rights and autonomy. In Jan-Aug., '97, 1,000 persons were killed in Shia-Sunni clashes and at least 250 were shot dead in Karachi. In Aug., government enacted a new law to combat the growing sectarianism and violence.

Disputed Areas: Pakistan controls the northernmost portions of Kashmir, an area of 13,160 sq km with a population of 1.8 m. in 1985. The Pak-occupied area has its own Assembly, its own Council and Supreme Court. There is a military form of Government with a Governor as the executive head and the Commander as the constitutional head. The seat of government is Muzaffargarh. The Pakistan Government is directly responsible for Gilgit and Baltistan (the north).

On May 28, 1998, Pakistan tested five nuclear devices and this was followed by a sixth one on May 30.

On June 20 2001, Gen. Musharraf declared himself President of the country. Efforts to find a peace formula on issues between India and Pakistan received a boost in the Agra summit in July 2000 between Gen. Pervez Musharraf and PM Vajpayee of India. It ended without a joint declaration but was start for further engagements.

Economy: Agriculture (including forestry and fishing) is the mainstay of Pakistan's economy, employing about 50% of the working population and providing about 26% of the country's gross domestic product (GDP).

The entire area in the north and west is covered by great mountain ranges. The rest of the country consists of a fertile plain watered by five big rivers and their tributaries. Agriculture is dependent almost entirely on the irrigation system based on these rivers. The main crops are wheat, cotton, maize, sugar-cane and rice, while the Quetta and Kalat divisions (Baluchistan) are known for their fruits and dates. Pakistan is self-sufficient in wheat, rice and sugar.

Industry employs about 10% of the population. Manufacturing (refined sugar, vegetable products, jute textiles, soda ash, sulphuric acid, caustic soda, chip board and paper board, bicycles, cotton cloth, cotton yarn, cement and steel) contributes about 20% to GNP. Main exports are cotton cloth, cotton yarns, rice, leather, carpets and tapestries. There are international airports at Karachi, Islamabad, Lahore, Peshawar and Quetta.

Recent Events: In January 2006, up to 18 people were killed in a US missile strike, apparently targeting senior al-Qaeda figures, on a border village in the north. More than 30 people were killed in a suspected suicide bomb attack and ensuing violence at a Shia

Israel would withdraw from Gaza Strip (preferred Palestinian term, Gaza district) and Jericho. Early September, PLO and Israel announced mutual recognition. On 13th, the historic accord was signed in Washington. On May 13, 1994, Israel handed over Jericho to Palestinian police, and on July 5, Arafat established Palestinian self-government there. In January, 1996, he became the first elected Palestinian President with a massive 88.1% of the vote, and took the oath of office as President of the Palestinian Authority on Feb. 12. The electorate was 1,013,200. The Palestinian Council is an 82-member body.

Israeli currency is in use. There is a Palestinian police of some 15,000 men.

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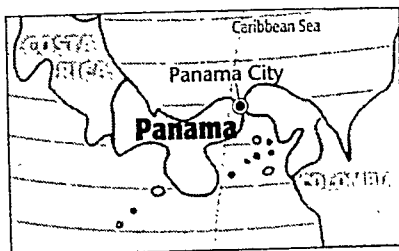
E-mail: palestin@starith.net

Indian Mission in Palestine: Representative office of India, 182-49, Shurta Street, Al Remal, P.O. Box. 1065, Gaza City, State of Palestine. Tel: 00-972-87-2825423, 2838199; Fax: 00-972-87-2825433.

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136. Panama

(Republic of Panama) Republica de Panama
Capital: Panama City; Other Large Cities: San



Miguelito, David; Area: 77,082 sq.km; Population: 3,191,319; Languages: Spanish, English; Religions: Roman Catholic-85%, Protestant-15%; Literacy: 92.6%; Life Expectancy: 75.22; Currency: Balboa (\$1=1); p.c.i: \$ 7,200; Date of Independence: 3rd November, 1903.

Government Type: Republic; President & PM: Martin Torrijos.

History: Panama, the southern-most of the Central American nations, is a narrow strip of territory at the southern end of the isthmus separating North and South America. Panama declared its independence from Colombia on Nov. 3, 1903.

In 1979, Panama assumed sovereignty over what was previously known as the Panama Canal Zone and now called the Canal Area.

Control over the 81.6-km waterway Panama Canal, linking the Atlantic and the Pacific oceans, had long been a bone of contention between the US and Panama. On Jan. 1, 2000, Panama took full control of the Canal, 785 years after the strategic waterway was opened.

Economy: The soil is extremely fertile but nearly one-half of the land is uncultivated. The chief crops are bananas, coffee, pine apple, cocoa and cereals. Shrimp fishing is important. There are excellent timber resources, notably mahogany. Industry: Oil refining, sugar, food processing, international banking.

Mission in India: Embassy of Panama, Post Box No. 3168, Jor Bagh, New Delhi-110 002

Tel: 24642518, 24627890; Fax: 24642350.

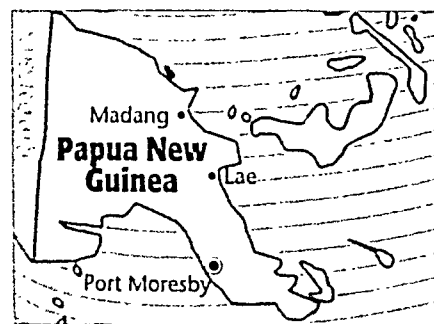
E-mail: pana'nd@bol.net.in

Indian Mission in Panama: Embassy of India, No.10325, Avenida Federico Boyd Y Calle 51, Bella Vista, Post Box No.8400, Panama 7, Republic of Panama. Tel: 00-507-2642416, 2643043, 2648780; Fax: 00-507-2642855.

E-mail: indempn@panama.c.com.net

137. Papua New Guinea

Independent State of Papua New Guinea



Capital: Port Moresby; **Other Large Cities:** Lae, Madang, Wawek; **Area:** 462,840 sq.km; **Population:** 5,670,544; **Languages:** English, Melanesian and Papuan languages; **Religions:** Roman Catholic-22%, Lutheran-16%, Presbyterian/Methodist/London Missionary Society-8%, Anglican-5%, Evangelical Alliance-4%, Seventh Day Adventist-1%, Other Protestant-10%, indigenous beliefs-34%; **Literacy:** 64.6%; **Life Expectancy:** 65.28; **Currency:** Kina (\$1=2.98); **p.c.i.:** \$ 2,600; **Date of Independence:** 16th September, 1975.

Government Type: Parliamentary Democracy; **Gov. Gen:** Sir Paulis Matane; **PM:** Sir Michael Somare.

Papua New Guinea comprises the eastern section of the island of New Guinea (the western half belongs to Indonesia) and adjacent islands. New Guinea is the second largest island in the world.

History: It is a region of lofty mountains and swampy plains. The surrounding islands

are largely of volcanic or coral origin. The population consists of dark-skinned Melanesians, who live mostly along the coasts and woolly-haired Papuans who inhabit the interior. There are more than 800 tribes, many of whom live in almost complete isolation with mutually unintelligible languages. Became independent on Sept. 16, 1975, ending a U.N. trusteeship under the administration of Australia. All citizens above 18 are eligible to vote and stand for election.

More than 20,000 people have died on the island of Bougainville where a protest against a copper mine evolved into a ten-year-long rebellion that 13 rounds of peace talks have failed to resolve. Fighting by the government and the secessionist Bougainville Revolutionary Army was halted by a truce in Oct. '97. There was a severe drought in 1997. On July 18, 1998 a devastating tidal wave killed at least 3000 people and wiped away a number of villages along the coastline.

Economy: Agriculture occupies the majority of the population, most of whom are subsistence farmers. Main food crops. Sago, yams, taro, manioc, and sweet potatoes. Cash crops include coconuts, cocoa, coffee and rubber. The country has large deposits of copper, gold, silver and oil. Nevertheless, Papua New Guinea remains a poor country, still receiving aid from Australia. The massive mining royalties, estimated at \$ 2 billion, also support economy. **Industries:** Food processing, beverages, tobacco, timber products.

Mission in India: High Commission of Papua New Guinea stationed at Kuala Lumpur.

Indian Mission in Papua New Guinea: High Commission of India, Suite No.G-5, Hotel Islander Travelodge, P.O Box 86, Walgani, NCD, Port Moresby, Papua New Guinea. Tel: 00-675-3254757, 3251373; Fax: 00-675-3253138, 3201718(R).

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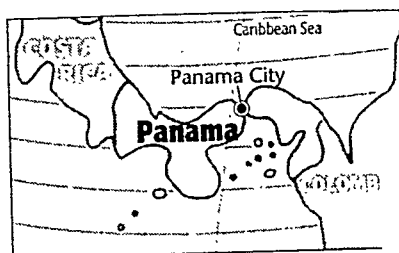
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(Republic of Panama) Republica de Panama
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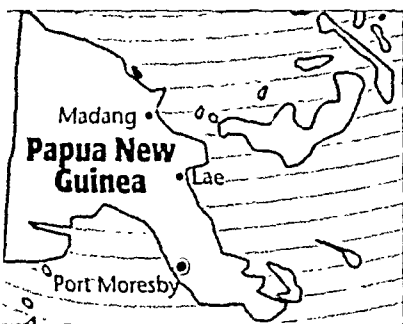
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Box No. 3168, Jor Bagh, New Delhi-110

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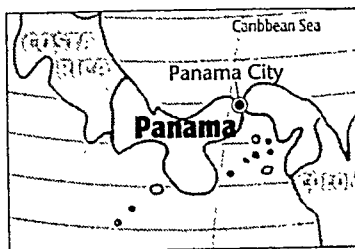
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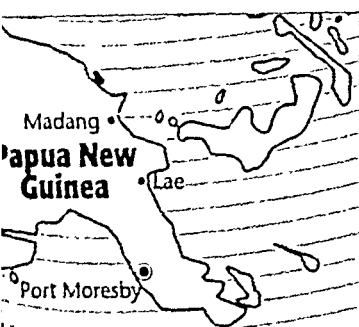
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Indian Mission in Panama: Embassy of India
10325, Avenida Federico Boyd Y Calle
La Vista, Post Box No.8400, Panama 7,
Republic of Panama. Tel: 00-507-2642416,
243, 2648780; Fax: 00-507-2642855.
Email: indempan@panama.c.com.net

Papua New Guinea

Independent State of Papua New Guinea



Capital: Port Moresby; Other Large Cities: Lae, Madang, Wewak; Area: 462,840 sq.km; Population: 5,670,544; Languages: English, Melanesian and Papuan languages; Religions: Roman Catholic-22%, Lutheran-16%, Presbyterian/Methodist/London Missionary Society-9%, Anglican-5%, Evangelical Alliance-1%, Seventh Day Adventist-1%, Other Protestant-10%, indigenous beliefs-34%; Literacy: 50%; Life Expectancy: 65.28; Currency: Kina (\$1=2.98); p.c.i: \$ 2,600; Date of Independence: 16th September, 1975.

Government Type: Parliamentary Democracy; Gov. Gen: Sir Paulus Matane; PM: Sir Michael Somare.

Papua New Guinea comprises the eastern portion of the island of New Guinea (the western half belongs to Indonesia) and adjacent islands. New Guinea is the second largest island in the world.

History: It is a region of lofty mountains and swampy plains. The surrounding islands

are largely of volcanic or coral origin. The population consists of dark-skinned Melanesians, who live mostly along the coasts and woolly-haired Papuans who inhabit the interior. There are more than 800 tribes, many of whom live in almost complete isolation with mutually unintelligible languages. Became independent on Sept. 16, 1975, ending a U.N. trusteeship under the administration of Australia. All citizens above 18 are eligible to vote and stand for election.

More than 20,000 people have died on the island of Bougainville where a protest against a copper mine evolved into a ten-year-long rebellion that 13 rounds of peace talks have failed to resolve. Fighting by the government and the secessionist Bougainville Revolutionary Army was halted by a truce in Oct. '97. There was a severe drought in 1997. On July 18, 1998 a devastating tidal wave killed at least 3000 people and wiped away a number of villages along the coastline.

Economy: Agriculture occupies the majority of the population, most of whom are subsistence farmers. Main food crops: Sago, yams, taro, manioc, and sweet potatoes. Cash crops include coconuts, cocoa, coffee and rubber. The country has large deposits of copper, gold, silver and oil. Nevertheless, Papua New Guinea remains a poor country, still receiving aid from Australia. The massive mining royalties, estimated at \$ 2 billion, also support economy. Industries: Food processing, beverages, tobacco, timber products.

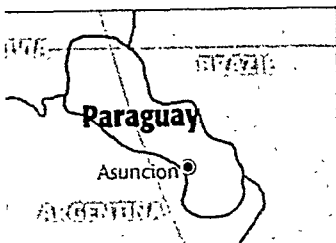
Mission in India: High Commission of Papua New Guinea stationed at Kuala Lumpur.

Indian Mission in Papua New Guinea: High Commission of India, Suite No.G-5, Hotel Islander Travelodge, P.O Box 86, Walgani, NCD, Port Moresby, Papua New Guinea. Tel: 00-675-3254757, 3251373; Fax: 00-675-3253138, 3201718(R).

E-mail: hcipom@datec.com.pg

Paraguay

(Republic of Paraguay) Republica del Para-



Capital: Asuncion; **Other Large Cities :** San Lorenzo, Encarnacion; **Area:** 406,752 sq km; **Population:** 6,506,464; **Languages:** Spanish, Guaraní; **Religions:** Roman Catholic-90%, Protestant and other Protestant-10%; **Literacy:** 94%; **Life Expectancy:** 75.1; **Currency:** Guaraní (\$1= 5,830); **p.c.i.:** \$ 4,900; **Date of Independence:** 14th May, 1811.

Government Type: Republic; **Head of State:** Nicanor Duarte Frutos.

History: Paraguay is one of the two landlocked countries of South America surrounded by Bolivia, Brazil and Argentina. The Paraguay river is navigable for some 3000 km. Steamers come upto Asuncion which is the chief port of the state. This makes up for the lack of coastline or sea harbours. Paraguay declared independence from Spain on May 14, 1811. Gen. Alfredo Stroessner ruled from 1954 to 1989, until ousted in a military coup. **Economy:** About 75 per cent of the population is engaged in agriculture and allied with cattle breeding as an important occupation. Main crops are maize, cotton, soybean, tobacco and citrus fruits. The timber resources of the state are enormous. The chief exports are beef and other food products, soybean, hardwood, hides and skins, cottonseed and soya. **Industries:** Food processing, wood products, textiles, cement.

There was a coup attempt in May, 2000.

Opposition leader, Julio Cesar Franco, was declared the winner in Paraguay's elections

for Vice President in August. This created an unprecedented power-sharing arrangement with the President from the ruling party.

Recent Events: In June 2006, Luis Gonzalez Macchi, President from 1999-2003, was sentenced to six years in jail over illegal bank transfers. In August, former military ruler Alfredo Stroessner died in exile in Brazil, aged 93.

Indian Mission in Paraguay: Honorary Consulate General of India, Avda, Eusebio Ayala 3663 Km.4, Asuncion, Paraguay. Tel: 00-595-21-660111; Fax: 00-595-21-660115.

139. Peru

(Republic of Peru) Republica del Peru



Capital: Lima; **Other Large Cities:** Arequipa, Callao; **Area:** 1,281,215 sq.km; **Population:** 28,302,603; **Languages:** Spanish, Quechua, Aymara; **Religions:** Roman Catholic-90%; **Literacy:** 87.7%; **Life Expectancy:** 69.84; **Currency:** New Sol (\$1=3.26); **p.c.i.:** \$ 5,900; **Date of Independence:** 28th July, 1821.

Government Type: Republic; **President:** Alejandro Toledo; **PM:** Pedro Pablo Kuczynski.

History: Peru is on the Pacific coast of S. America. It was originally the seat of the famous Inca (Red Indian) Empire. It became independent on 28 July, 1821. After a military coup in 1968, civilian government was restored in 1980. A new constitution was promulgated in Dec. '93.

s mountains dominate Peru. rarest species of animals, the vicuña, the alpaca and the cross-horned guanaco are found in the Andean region where they are now protected. Peru: The leading agricultural products are cotton, wool, sugar, coffee, rice, and potatoes. Corn which is native to Peru is the staple food of the Indians, who also raise alfalfa. Fishing industry is well developed and Peru is the world's most important producer of fishmeal. The country, rich in minerals, is one of the leading producers of silver. Some of the biggest copper deposits in the world are located in Peru. The exports are cotton, fish products, petroleum, copper and iron ore.

Indian Mission in India: Embassy of the Republic of Peru, C-1/24, Vasant Vihar, New Delhi-110057. Tel:26141154, 26152294; Fax: 261555.

E-mail: info@embaperuindia.com
 Web: www.embaperuindia.com
 Indian Mission in Peru: Embassy of India, 15, Magdalena del Mar, Lima, 17, Peru.
 Tel: 00-51-1-2616006, 4602289, 2616751;
 Fax: 00-51-1-4610374.
 E-mail: consular@indembassy.org.pe
 Website : www.indembassy.org.pe

40. The Philippines

(Republic of the Philippines) Republika ng Pilipinas



Capital: Manila; **Other Large Cities :** Quezon City, Davao; **Area:** 299,404 sq.km; **Population:** 89,468,677; **Languages:** Filipino, English and Spanish; **Religions:** Roman Catholic-80.9%, Evangelical-2.8%, Iglesia ni Kristo-2.3%, Aglipayan-2%, other Christian-4.5%, Muslim-5%, other-1.8%, unspecified-.6%, none-0.1%; **Literacy:** 92.6%; **Life Expectancy:** 70.21; **Currency:** Peso (\$1=63.16); **p.c.i.:** \$5,100; **Date of Independence:** 12th June, 1898.

Government Type: Republic; **President & PM:** Ms. Gloria Macapagal Arroyo.

An archipelago of about 7100 islands, the Republic of the Philippines lies in the western Pacific Ocean, over 800 km. off the southeast coast of Asia. Just 11 islands constitute 94 per cent of the total land area. The principal islands are Luzon in the north and Mindanao in the south.

History: The Philippine islands, discovered by Magellan in 1521, were conquered by Spain in 1565. The islands, named for King Philip II of Spain, were ceded to USA in 1898. Became completely independent in 1946.

Economy: Main agricultural crops are rice, maize, sugar, tobacco, coconut, pineapple and bananas. Manufacturing is a major source of economic development. Industries include textiles, rubber products, oil refinery, pharmaceuticals, chemicals, electronics assembly, furniture, cigarettes, paper, metal, glassware and food products. The Philippines is rich in natural resources and has iron, silver, gold, chromite, manganese and copper deposits in commercial quantity. It has also marble quarries, forests and extensive fishing grounds.

Ferdinand Marcos was President from 1965 to '86. Corazon Aquino succeeded him. The U.S. vacated the Subic Bay Naval Station at the end of the year.

Government and Moslem separatist negotiators signed an agreement on Aug. 30, 1996 to end 24 years of bloody conflict in

the south of the country which had claimed 125,000 lives. A plebiscite is to be held in 14 provinces on Mindanao island.

Recent Events: In February 2006, 74 people were killed and hundreds were injured in a stampede for tickets for a TV game show at a stadium in Manila. More than 1,000 people were killed by a mudslide which engulfed a village on the central island of Leyte. President Arroyo declared a week-long state of emergency after the army said it had foiled a planned coup. The death penalty was abolished in June. It was scrapped in 1987 but had been re-introduced.

Mission In India: Embassy of the Philippines, 50-N, Nyaya Marg, Chanakyapuri, New Delhi-110 021. Tel: (91-11) 24101120, 26889091; Fax: 26876401.

E-mail: newdelhipe@vsnl.net.in

Consulate: Mumbai: Tel: 22024792, Fax: 22814103; Kolkata: Tel: 22808353, Fax: 22808354; Chennai: Tel: 2354063, Fax: 2352062

Indian Mission In Philippines: Embassy of India, 2190 Paraiso Street, Dasmarinas Village, Makati, Metro, Manila, Philippines, Tel: 00-63-2-8430101/02; Fax: 00-63-2-8158151.

E-mail: eimani@vasia.com

141. Poland

(Republic of Poland) Rzeczpospolita Polska
Capital: Warsaw; Other Large Cities : Lodz, Krakow; Area: 312,677 sq.km; Population:



38,536,869; Languages: Polish; Religions: Roman Catholic-89.8%, Eastern Orthodox-1.3%, Protestant-0.3%, other-0.3% and unspecified-8.3%; Literacy: 99.8%; Life Expectancy: 74.97; Currency: Zloty (\$1=3.21); p.c.i: \$: 13,300; Date of Independence: 11th November, 1918.

Government Type: Republic; President: Lech Kaczynski ; PM: Jaroslaw Kaczynski.

History: A republic of upper central Europe, Poland's history goes back to the tenth century A.D. Partitioned in the 18th century, it became independent in 1918. The Nazi invasion of Poland in 1939 initiated World War II. The country was liberated again in 1944.

Solidarity movement led by Nobel Prize winner Lech Walesa played an important part in bringing down the communist dictatorship in 1989. The communist party was dissolved in 1990. Poland joined the European Union on May 1, 2004.

Economy: About 62% of the population are urban; 32% of the population are engaged in agriculture. Chief crops are rye, wheat, oats, potatoes, sugar beets, tobacco and flax. The country has vast resources of mineral wealth, particularly coal, besides iron, lignite, natural gas, lead, zinc and sulphur. Textiles, chemicals and metallurgy are old, established industries. New industries include automobiles, tractors, heavy machinery, ship-building and aircraft manufacturing. Main exports are ships, coal, steel and clothing. Wide ranging measures to convert the economy into a market oriented system were introduced in 1989. In 1991, the government announced an ambitious privatisation plan.

Recent Events : In January 2006, more than 60 people were killed when roof of Katowice trade centre collapsed. In May, Law and Justice party reached majority coalition agreement with self-Defence Party and League of Polish families. In July, President Lech Kaczynski's twin brother, Jaroslaw became premier.

Mission in India: Embassy of the Republic of Poland, 50-M, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 51496900 (Ambassador's Office: 51496901); Fax: 51496914 (Embassy)/ 26872033 (Commercial Section)

E-mail: gorski@de12.vsnl.net.in

Consulate General of the Republic of Poland in Mumbai: Manavi Apartments, 2nd Floor, 36, B.G. Kher Marg, Malabar Hill, Mumbai-400 006; Ph: (91 22) 23633863

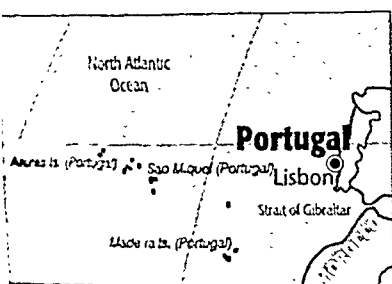
E-mail: poland@vsnl.com

Indian Mission in Poland: Embassy of India, Ul. Rejtana 15 (Flats 2 to 7) Mokotow, 01-516 Warasaw, Poland. Tel: 00-48-22-22195800, 8496257; Fax: -00-48-22-22196705, 8498505.

E-mail: ss_com@it.com.pl

42. Portugal

Republic of Portugal) Republica Portuguesa



Capital: Lisbon; Other Large Cities: Oporto, Amadora; Area: 92,072 sq.km; Population: 10,605,870; Languages: Portuguese; Religions: Roman Catholic-94%, Protestant; Literacy: 93.3%; Life Expectancy: 77.7; Currency: Euro (\$1=0.79); p.c.i: \$ 19,300; Date of Independence: 1143.

Government Type: Republic; President: Anibal Cavaco Silva; PM: Jose Socrates.

Portugal is a small rectangular territory in the southwest corner of the Iberian Peninsula.

History: Portugal was an independent kingdom from the 12th century. It became a republic in 1910. The period 1932-68 saw a strong, repressive government headed by Premier Antonio de Oliveira Salazar. Portugal is a member of the European Union.

The Atlantic archipelagoes of the Azores and of Madeira form autonomous but integral parts of the republic.

Economy: Nineteen per cent of the country is forest, where pine, oak, chestnut and cork grow in abundance. Winegrapes, olives, grains and potatoes are the principal agricultural products. The major minerals are coal, copper, kaolin, wolframite, lithium and titanium. Textiles, chemicals, paper, footwear and glassware are the principal manufactures. The main exports are wine, canned sardines, tuna, anchovies, resins and cork. Portugal is one of the leading producers of cork.

In 1989, a package of reforms that did away with the socialist economy was approved by parliament.

In August, '98, Portugal and Indonesia agreed to discuss an Indonesian plan that would confer a special status for East Timor.

Portugal returned Macao to China in Dec., 1999.

Recent Events: Elections were held in February, 2005.

Mission in India: Embassy of Portugal, 8, Olof Palme Marg, Vasant Vihar, New Delhi-110 057. Tel: 26142215; Fax: 26152837

E-mail: emportin@ndf.vsnl.net.in

Web: www.embportindia.com

Indian Mission in Portugal: Embassy of India, Rua Pero da Covilha, No.16, 1400 Lisbon, Portugal. Tel: 00-351-21-3041090; Fax: 00-351-21-3016576.

E-mail: indiaembcom@mail.telepac.pt

Overseas Territories

Azores Islands

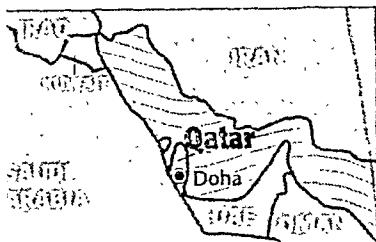
Area: 2248 sq.km; Population: 238,000; In the Atlantic; Partial autonomy was offered in 1976.

3. Madeira Islands

Area: 795 sq.km.; Population: 437,312; Off North East coast of Africa. Autonomous region since 1976.

13. Qatar

State of Qatar) Dawlat al-Qatar



Capital: Doha; Area: 11,437 sq.km; Population: 885,359; Languages: Arabic, English; Religions: Muslim-95%; Literacy: 89%; Currency: Riyal (QAR) (\$1=3.64); p.c.i: \$ 27,400; Life Expectancy: 73.9; Date of Independence: September, 1971.

Government Type: Traditional Monarchy; Head of State & Govt. (The Amir): Sheikh Hamad bin Khalifa al Thani.

Qatar is a 160 km. long tongue of land protruding into the Persian (Arabian) Gulf. It is surrounded almost on three sides by the Persian Gulf. Saudi Arabia lies to the south.

History: Qatar declared its independence from Britain on Sept. 3, 1971. It is an absolute monarchy. Oil revenues give Qatar a per capita income among the highest in the world.

In May, '98, the Amir said that Qatar will have a constitution. In 1999 municipal elections, women participated for the first time as candidates and voters.

Economy: Most of the population live in and around Doha, the capital. Immigrants from Pakistan, Iran and Oman now outnumber the native Qataris. Today the oil industry provides over 90% of the national income but employs only less than 5% of the population.

Even so, the future lies with gas. Qatar's Dukhan field has been exploited since 1980, but most attention is now focused on the North field, which is the world's largest gas field not associated with oil. Qatar is connected by road to the rest of Arabia and by air to the rest of the world. Agriculture: Cereals, fruits, vegetables, dates. Industries: fertilisers, steel, petrochemicals, cement.

Mission in India: Embassy of the State of Qatar, EP-31A, Chandragupta Marg, Chanakyaपुरी, New Delhi-110021. Tel: 26117988, 26118486 (Ambassador's Office); Fax: 26886080.

Indian Mission in Qatar: Embassy of India, P.O. Box 2788, Al-Hilal Area, Doha, Qatar. Tel: 00-974-4672021, 4672716; Fax: 00-974-4670448.

E-mail: indembdh@qatar.net.qa

144. Romania

Capital: Bucharest; Other Large Cities: Brasov,



Timisoara; Area: 237,500 sq km; Population: 22,303,552; Languages: Romanian, Hungarian, German; Religions: Eastern Orthodox-87%, Protestant-6.8%, Catholic-5.6%, Jews-0.4%, unaffiliated-0.2%; Literacy: 98%; Life Expectancy: 71.63; Currency: Leu (National Lei.) (\$1=2.78); p.c.i: \$ 8,200; Date of independence: 9th May, 1877.

Government Type: Republic President Traian Basescu; PM: Calin Popoviciu Tariceanu.

Romania lies in the south east of Europe.

tral part of Europe. Ethnic mix: Romanians 89%, Hungarians 9%, others 2%.

Modern Romania was formed in 1859. In 1877, Romania proclaimed independence from Turkey, became an independent state in 1878, a kingdom in 1881 and a constitutional monarchy with a bicameral legislature in 1886. A People's Republic was proclaimed in 1947. In 1965, Romania became a socialist republic. It ended Communist dictatorship in 1989 by shooting long-time president Nicolae Ceausescu. National Salvation Front took over power in 1990. Romania's King Micheal returned home in Feb., 1997, 50 years after Communists banished him.

Industry, which accounts for 30% of the GDP, dominates Romanian economy. Heavy industries are predominated by drilling rigs for oil, equipment for oil refineries, petrochemical industry, cement, thermo and hydro electric power, diesel and electric locomotives of high capacity, engineering and consumer goods, etc. Many state-owned companies were privatised in 1996.

Romanian agriculture recorded profound changes during the last three decades, beginning with the land reforms of 1945. Chief crops: grains, potatoes, vegetables, sunflower. Forests cover over a quarter of the country.

The exports are mostly made up of machines and equipment, chemical products, chemicals, fertilisers and industrial consumer goods.

Recent Events: In January 2006, at least seven miners died in coal mine explosion. In February, former prime minister Adrian Nastase was charged with corruption. He insisted he had done nothing wrong.

Mission in India: Embassy of Romania, A-47, Vasant Marg, Vasant Vihar, New Delhi-110057. Tel: 26140447, 26140700; Fax: 26140611.

E-mail:emromd@hotmail.com emromd@yahoo.com/eccomd@yahoo.com

Indian Mission in Romania: Embassy of India, 11, Uruguay Street, Sector 1, Bucharest (Romania). Tel: 00-40-1-2225451, 2225715; Fax: 00-40-1-2232581.

E-mail:amoi@eod.ond.dnt.ro so-fetec.ond.dnt.ro

145. Russia

(Russian Federation) Rossiyskaya Federatsiya
Capital: Moscow; **Other Large Cities:** St. Petersburg, Samara; **Area:** 17,075,000 sq. km; **Population:** 142,893,540; **Languages:** Russian, Ukrainian, Belarussian, Uzbek, Armenian, Azerbaijani, Georgian, and others; **Religion:** Russian Orthodox-15-20%, Muslim-10-15%, other Christian-24%; **Literacy:** 99.6%; **Life Expectancy:** 67.03; **Currency:** Rouble (\$1=27.02) (costing, p. 10, 100); **Date of Independence:** 24th August, 1991

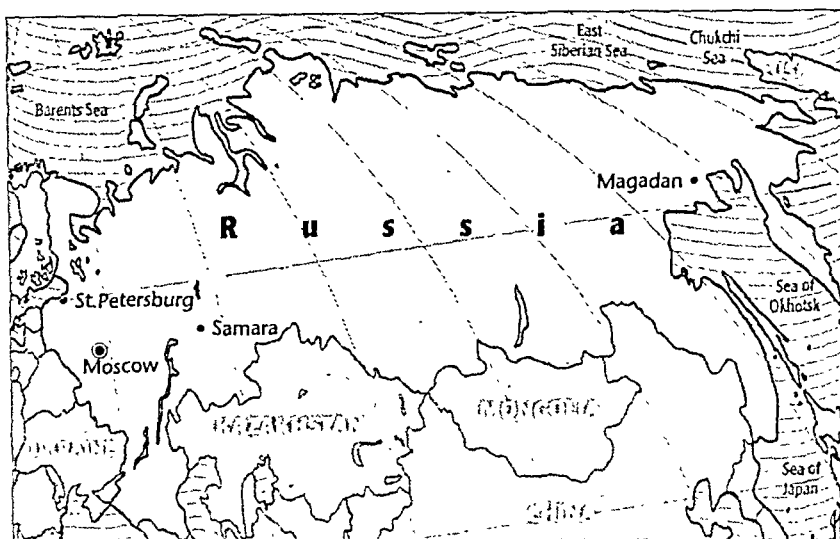
Government Type: Federal Republic; **President:** Vladimir Putin; **PM:** Mikhail Fradkov

Russia, the largest country in the world in area, stretches across the continents of Asia and Europe. It extends for over 9000 km from the Baltic Sea to the Pacific Ocean and for 4800 km from north to south.

History: Russia, an independent country since 1991, is 75% of the total area of the former Soviet Union and has 50% of its total population. About 70% of USSR's total industrial and agricultural output came from Russia.

Russia has now taken the place of the former Soviet Union in international fora. Russia adopted the name 'Russian Federation'.

On December 8, 1991, Russia, Belarus and Ukraine concluded an agreement establishing a Commonwealth of Independent States (CIS) with its headquarters in Minsk. The member states are the three founders and nine subsequent adherents: Armenia, Azerbaijan, Moldova, and the Central Asian republics of Kazakhstan, Kyrgyzstan, Tajikistan,



Turkmenistan and Uzbekistan and Georgia.

The Russian Federation consists of 21 Republics, 6 Territories, 49 Provinces, 10 Autonomous Areas, 2 Cities of federal status (Moscow & St. Petersburg) and the Jewish Autonomous Region (Birobajan).

In 1993, a drive to privatise thousands of large and medium-sized state-owned enterprises was launched. President Yeltsin narrowly survived an impeachment vote by the Congress of Deputies in March. In Oct., Yeltsin ordered the army to attack and seize the parliament building, where anti-Yeltsin legislators had barricaded themselves. About 140 people were killed in the fighting. In Feb. '94, parliament amnestied those arrested after the occupation of the parliament building.

In July '94, Russia joined NATO's partnership for peace plan of military cooperation with former communist states. In May, '96, presidents of Russia, Belarus, Kazakhstan and Kyrgyzstan signed a treaty to boost closer links among them.

Chechen separatists have been a major problem since the winter of 1994-'95 when Russian troops were sent in to crush

Chechnya's secessionist leadership. In August, '96, the war ended with an agreement between the government and the separatists to defer the decision on whether Chechnya should be independent until Dec. 31, 2001. Fighting resumed and Russia suffered heavy losses.

In Apr. '97, the presidents of Russia, Kazakhstan, Kyrgyzstan, Tajikistan and China signed a demilitarisation accord providing for considerable troop reductions along their 7000 km. common border.

In Aug. 97, Russia announced the dismantling of all rocket missiles targeted on western strategic centres. Russia's army was to shrink from 1.8m. to 1.2m.

Russia attended G-8 summit as a full-fledged member.

Economy: Grain, cotton, potatoes, sugar beets, sunflower, are the main agricultural products. Natural resources include oil, gold, platinum, copper, zinc, Russia also has the world's large timber. Russia's gold industry is one of the largest. Steel mills, huge gas industries and electric railroads.

refugees in Western Rwanda crossed into Zaire as Tutsi rebels held 2/3 of the country. In July, the Tutsi-dominated Rwandan Patriotic Front named a Hutu, the new President. About one million Hutu refugees flooded back to Rwanda from Tanzania and Zaire in Nov. '96. Paul Kagame (sworn in Apr.2000) is the first Tutsi president of Rwanda.

Economy: The economy is agricultural and remains mainly at the subsistence level. Coffee, cotton, sorghum, cassava and sweet potatoes are the principal crops. Minerals include tin ore, tungsten, tantalite, gold and beryl. Industry is undeveloped. Food manufacturing is the chief industrial activity. Livestock raising is widespread and hides and skins are exported.

In July, 2000 an international panel set up by OAU concluded that the genocide in which 8 lakhs Tutsi people were killed was avoidable, and the Security Council didn't try to stop it.

Recent Events : In January 2006, Rwanda's 12 provinces were replaced by a smaller number of regions with the aim of creating ethnically-diverse administrative areas.

Mission in India: Embassy of the Republic of Rwanda, 41, Paschimi Marg, Vasant Vihar, New Delhi - 110 057. Tel: 5166 1604; Fax: 5166 1605.

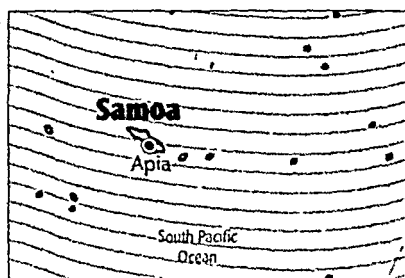
E-mail: rwandaembassy@yahoo.com and ambadelhi@minaffet.gov.rw

Indian Mission in Rwanda: Honorary Consulate General of India, M/S Sulfo Rwanda Industries, Rue de Lac Ihema, B.P. 90, Kigali, Rwanda. Tel:00-250-74556; Fax:00-250-74290.

147. Samoa (formerly Western Samoa)

(Independent State of Samoa) Malotuto'ata-sio Samoa I Sisifo

Capital: Apia; **Area:** 2835 sq km; **Population:** 176,908; **Languages:** Samoan and English;



Religions: Christian-99.7%; **Literacy:** 99.7%; **Life Expectancy:** 71; **Currency:** Tala (\$1=2.78); **p.c.i:** \$ 5,600; **Date of Independence:** 1st January, 1962.

Government Type: Constitutional Monarchy; **Head of State for Life:** Malietoa Tanumafili II. **PM:** Tuilaepa Sailele.

History: Samoa in South Pacific consists of the two large islands of Savaii and Upolu, the small islands of Manono and Apolima and several uninhabited islets lying off the coast. The International Dateline passes very near Samoa. Eastern Samoa (American Samoa) with its capital at Fagotogo remains a dependency of the USA. (Area: 197 sq.km.).

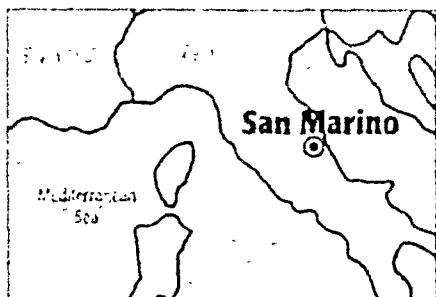
A former German protectorate, Samoa was administered by New Zealand from 1920 to 1961. Became fully independent on Jan.1, 1962. Has close links with New Zealand, on which it is dependent for military and economic assistance.

Economy: The economy is mainly agricultural. The chief products are fish, copra, bananas, taro, sweet potatoes, bark cloth and mats.

148. San Marino

(Most Serene Republic of San Marino)

Capital: San Marino; **Other Large Cities:** Seravalle, Borgo Maggiore; **Area:** 61 sq km; **Population:** 29,251; **Languages:** Italian; **Religions:** Roman Catholic; **Literacy:** 96%; **Life Expectancy:** 81.71; **Currency:** Euro (\$1=0.79); **p.c.i:** \$ 34,600; **Date of Independence:** 3rd September, 301



Government Type: Republic

Captains-Regent: Two co-regents appointed every six months from the Great and General Council of 60 members elected every 5 years.

History: The Republic of San Marino is a landlocked state in central Italy, 20 km. from the Adriatic.

It claims to be the oldest state in Europe, having been founded in A.D. 301, and the oldest republic in the world. A communist-led coalition ruled 1947-'57, a similar coalition ruled 1978-'86. San Marino has had a treaty of friendship with Italy since 1862.

Economy: The principal products are wheat, wine and olives. Industries include textiles, ceramics, cement, paper, postage stamps, leather and woollen goods. Tourism is the major source of revenue.

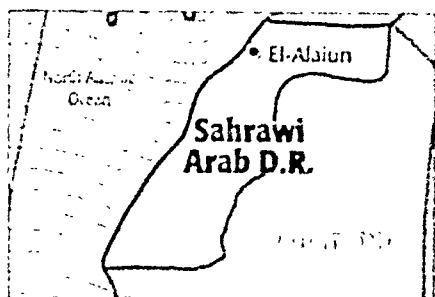
A person born in San Marino remains a citizen and can vote no matter where he lives. Women were granted the vote in 1959.

Mission in India: Honorary Consulate General of the Republic of San Marino, 15, Aurangzeb Road, New Delhi-110011. Tel: 23015850. Fax: 23019677.

E-mail: bhaims@ndb.vsnl.net.in

149. Sahrawi Arab Demo. Rep. (S.A.D.R.)

Capital: El-Alaiun; **Area:** 266,769 sq.km; **Population:** 228,100; **Languages:** Arabic; **Religions:** Islam.



President: Mohammed Abdel Aziz; **PM:** Mohamm-ed Lamine.

History: The Saharawi Arab Democratic Republic set up by the Polisario Front, a liberation movement in Western Sahara, is a territory that came under Morocco's control after Spain withdrew. Algeria supported the Polisario-led struggle for independence. India accorded recognition to the new government on Oct. 1, 1985.

The UN will conduct a referendum in Western Sahara on whether the territory should become independent or remain part of Morocco.

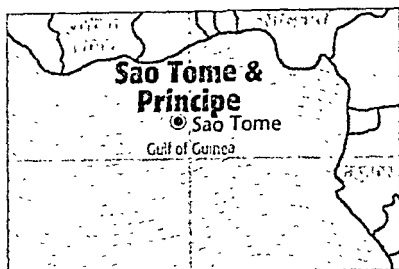
Economy: Western Sahara has rich phosphate deposits. Most of the land is desert.

Recent Events: A UN Security Council resolution has supported a proposal that Western Sahara become a semi-autonomous region of Morocco for a transition period of upto 5 years, after which the Sahrawis would decide on independence or integration. This compromise was seen as addressing Moroccan concerns, in a bid to entice it to agree to a referendum. Polisano signalled its readiness to accept, but Morocco rejected the plan, citing security concerns.

150. Sao Tome & Principe

(Democratic Republic of Sao Tome and Principe)

Capital: Sao Tome; **Area:** 964 sq km; **Population:** 193,413; **Languages:** Portuguese, native dialects like Fang; **Religions:** Catholic 70.3%, Evangelical-3.4%, New Ap...



2%, Adventist-1.8%, other-3.1%, none-19.4%; Literacy: 79.3%; Life Expectancy: 67.31; Currency: Dobra (\$1=8,825); p.c.i: \$1,200; Date of Independence: 12th July, 1975.

Government Type: Republic; **President:** Fradique De Menezes; **PM:** Tome Vera Cruz.

History: These two islands, with a few other nearby islets, lie in the Gulf of Guinea, about 200 km. from Gabon. Situated north of the equator, these islands have hot steaming weather in the summer, but plenty of rainfall. Forests cover 60% of the land area. The largest of the islands is Sao Tome, on which stands Sao Tome, the capital and chief port.

These islands were under the Portuguese until 1975 when they became independent.

Economy: Today, the country's economy is geared almost exclusively to the production of agricultural export commodities, especially cocoa (78% of exports) and coconut products. Fishing is an important activity. Sao Tome has to import most of its food. There is virtually no manufacturing industry except soap, soft drinks etc.

151. Saudi Arabia

(Kingdom of Saudi Arabia) al-Mamlaka al 'Araiya as-Sa'udiya

Capital: Riyadh (Royal) and Jeddah (Administrative); **Other Large Cities:** Mecca, Damman, Medina; **Area:** 2,250,070 sq km; **Population:** 27,019,731; **Languages:** Arabic; **Religions:** Muslim-100%; **Literacy:** 78.8%; **Life Expectancy:** 75.67; **Currency:** Rial (SAR)

(\$1=3.75); p.c. i: \$ 12,800; **Date of Independence:** 23rd September, 1932

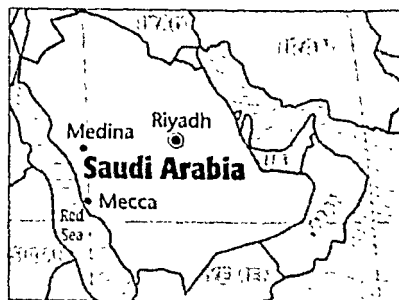
Government Type: Monarchy; **Head of State & Govt:** Abdallah bin Abd al-Aziz Al Saud.

History: Saudi Arabia, named after the ruling dynasty of Sa'ud, occupies nearly four-fifths of the Arabian Peninsula.

In the province of Hejaz are Medina and Mecca (the religious capital), the holy cities of Islam. The mosque of the Prophet in Medina enshrines the tomb of Mohammed, who died in the city in 632. More than 600,000 Muslims from about 60 nations pilgrimage to Mecca, the Prophet's birthplace, every year. Of the total population, 6 m. are foreigners.

The Saudi king, whose official title is custodian of the Two Holy Mosques (at Mecca and Medina), rules as absolute monarch. His heir and deputy, the crown prince, is selected from among the Sa'ud family by its leading members in consultation with the ulama, or supreme religious council. The king governs according to Islamic law, choosing a council of ministers, many of whom are Sa'uds.

Economy: Saudi Arabia has the largest reserves of petroleum in the world (25% of the proved reserves), ranks as the largest exporter of petroleum, and plays a leading role in OPEC. The petroleum sector accounts for roughly 75% of budget revenues, 45% of GDP, and 90% of export earnings. Chief agricultural products are dates, wheat, barley,



it, hides and wool. Industry: Petrochemicals, fertilisers, steel, gas, plastics. New industrial cities are being built at Jubail and Yanbu on the Gulf.

Recent Events: In January 2006, 363 Hajj pilgrims were killed in a crush during a stone-throwing ritual in Mecca. In a separate incident, more than 70 pilgrims were killed when a hostel in the city collapsed. In February, the government said it had foiled a planned suicide attack on a major oil-processing plant at Ras Rafiq. In June, six men allegedly linked to al-Qaeda were killed in a shootout with police in Riyadh, the latest of several incidents involving Islamist militants.

Mission in India: Royal Embassy of Saudi Arabia, D-12, N.D.S.E., Part II, New Delhi-110 019. Tel: 26252470-71, 26256419; Fax: 26259333, 26257082.

Indian Mission in Saudi Arabia: Embassy of India, B-1, Diplomatic Quarter, P.B.No. 1387, Riyadh-11693, Saudi Arabia. Tel: 00-966-1-4884144, 4884691/92; Fax: 00-966-4884750.

E-mail: ieriyadhadmn@shabakah.net.sa

52. Senegal

(Republic of Senegal)

Capital: Dakar; **Other Large Cities:** Thies, Ziguinchor, St. Louis; **Area:** 196,162 sq km; **Population:** 11,987,121; **Languages:** French, Wolof and other native tongues; **Religions:** Muslim-94%, indigenous beliefs-1%, Christian-5% (Mostly Roman Catholic); **Lit-**

eracy: 40.2%; **Life Expectancy:** 59.25; **Currency:** CFA Franc (\$ 1=518.98); **p.c.i:** \$ 1,800; **Date of Independence:** 4th April, 1960.

Government Type: Republic; **President:** Abdoulaye Wade; **PM:** Macky Sall.

Senegal lies on the West African bulge. Dakar, the capital, is the westernmost point in Africa.

History: Formerly a French colony, Senegal became a self-governing republic in 1960. Senegal was a one party state from 1966 to 1974, when a pluralist system was re-established. French political and economic influence is strong. In 1981, Senegal signed an agreement with the Gambia for a confederation of the two states under the name Senegambia. The confederation, established on Feb. 1, 1982, was dissolved on Sept. 21, 1989.

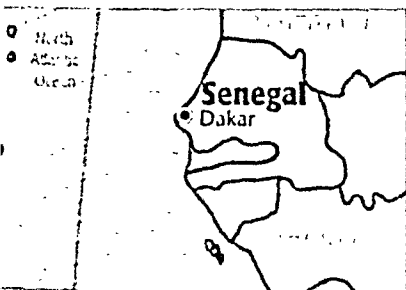
Economy: Agriculture and livestock-rearing are the chief occupations. Crops: Peanuts, millet, rice. There are large deposits of iron ore and phosphate. **Industry:** Food processing, chemicals, textiles and fishing. A long drought brought famine in 1972-73 and in 1978.

Abdoulaye Wade became President in March, 2000, succeeding Abdou Diouf.

Mission in India: Embassy of the Republic of Senegal, C-6/11, Vasant Vihar, New Delhi-110057. Tel: 26147687. Fax: 24103743

Indian Mission in Senegal: Embassy of India, 5, Avenue Carde, First Floor, BP 398, Dakar, Senegal. Tel: 00-221-8225875, 8210979; Fax: 00-221-8223585.

E-mail: indiaemb@telecomplus.sn



153. Serbia

Capital: Belgrade; **Other Large Cities:** Titograd, Novisad; **Area:** 88,361 sq. km.; **Population:** 9,396,411; **Languages:** Serbo-Croatian (official) 95%, Albanian 5%; **Religions:** Serbian Orthodox, Muslim, Roman Catholic, Protestant; **Literacy:** 96.4%; **Life Ex-**



pectancy: 74; Currency: New Dinar (\$1=57.61); p.c.i: \$ 4,400; Date of Independence: 27th April 1992.

Government Type: Republic; President (also Head of Govt.): Boris Tadic.

History: The kingdom of Serbs, Croats, and Slovenes was formed in 1918; its name was changed to Yugoslavia in 1929. Occupation by Nazi Germany in 1941 was resisted by various paramilitary bands that fought themselves as the invaders. The group headed by Marshal Tito took full control upon German expulsion in 1945. In the 1990s, Yugoslavia began to unravel itself along ethnic lines. Slovenia, Croatia and the former Yugoslav Republic of Macedonia all declared their independence in 1991; Bosnia and Herzegovina in 1992. In April 1992 Serbia and Montenegro announced the formation of a new Yugoslav Federation and invited Serbs in Croatia and Bosnia-Herzegovina to join. The United Nations imposed economic sanctions on Serbia when Serbian Military and financial aid poured into the Bosnian Serb campaign of "ethnic cleansing". In 1995 Milosevic signed the Dayton peace accord, which ended the Bosnian War. In 1996 local elections, the Serbian Socialist Party was defeated in many areas. In 1997 Milosevic was forced to acknowledge the poll results after massive demonstrations in Belgrade. He later resigned the presidency of Serbia in order to become president of Yugoslavia. In 1998 fighting erupted

in Kosovo between Albanian nationalists and Serbian forces. In 1999, following the forced expulsion of Albanians from Kosovo, Nato launched an airwar against Serbia and Montenegro to prevent a humanitarian crisis. Federal elections in the fall of 2000, brought about the ouster of Milosevic and installed Vojislav Kostunica as president. In 2002, the Serbian and Montenegrin components of Yugoslavia began negotiation to forge a closer relationship. These talks became a reality in February 2003 when lawmakers restructured the country into a loose federation of two republics called Serbia and Montenegro.

The constitutional charter of Serbia and Montenegro included a provision that allowed either republic to hold a referendum after three years that would allow for their independence from the state union. In the spring of 2006, Montenegro took advantage of the provision to undertake a successful independence vote enabling it to secede on 3rd June. Two days later, Serbia declared that it was the successor state to the union of Serbia and Montenegro.

Autonomous provinces within Serbia

Kosovo (Capital: Pristina; Area: 10887 sq.km. Population: 2m. **Vojvodina** (Capital: Novi Sad, Area: 21,506 sq.km; Population: 2,050,000).

Economy: Agricultural products: Maize, grains, sugar beets, wheat, tobacco, livestock and timber. Industry: Electricity, coal, iron, steel, cement, motor vehicles, wood products and tourism.

Mission in India: Embassy of Serbia & Montenegro, 3/50 G Niti Marg, Chanakya-puri, New Delhi-110 021. Tel: 26873661/26872073; Fax: 26885535.

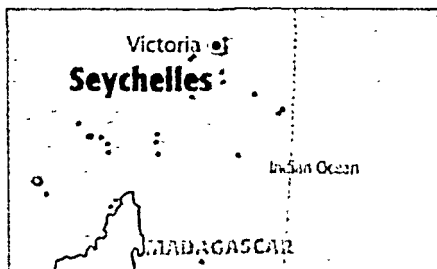
E-mail: zvezda@del2.vsnl.net.in

Indian Mission in Serbia & Montenegro: Embassy of India, Vase Pelagica 30, Senjak,

Belgrade. Tel: 00-381-11-3692431; Fax: 00-381-11-3692435.

154. Seychelles

(Republic of Seychelles)



Capital: Victoria; Area: 308 sq km; Population: 81,541; Languages: Creole, English and French; Religions: Roman Catholic-82.3%, Anglican-6.4%, Seventh Day Adventist-1.1%, other Christian-3.4%, Hindu-2.1%, Muslim-1.1%, other non-Christian-1.5%, unspecified-1.5%, none-0.6%; Literacy: 91.9%; Life Expectancy: 72.08; Currency: Rupee (\$1=5.52); p.c.i: \$ 7,800 ; Date of Independence: 29th June, 1976.

Government Type: Republic; President & PM: James Michel.

History: Situated in western Indian Ocean, over 1100 km. off NE of Madagascar, Seychelles is a group of about 115 lovely islands. Half the islands are coral-line and the other half granitic. The principal island is Mahe on which the capital Victoria is situated. Praslin and La Digue are two other islands. Seychelles was entirely uninhabited when the French established settlements there in 1768. It was ruled as part of Mauritius from 1814. Britain seized the group of islands in 1794. In 1903, it became a separate colony. Independence was declared on June 29, 1976, and Seychelles became a one-party state in 1979. In June, 1993, a new constitution provided for a multi-party state.

The population of Seychelles is of mixed

origin, a unique blend of European, African, Indian and Chinese races. Seychelles is renowned for its fine beaches, attractive scenery and pleasant climate.

Economy: Agriculture and fishing are major occupations. Chief crops: Coconuts, cinnamon, tea, vanilla and patchouli. Industry: Food processing and fishing. Tourism is a major contributor to gross domestic product.

Mission in India: Embassy of Seychelles Stationed at Kuala Lumpur.

Honorary Consulate of Seychelles, Qutab Ambience (at Qutab Minar), H-5/12, Mehrauli Rd, New Delhi-110 030. Tel: 51666123; Fax: 51666126.

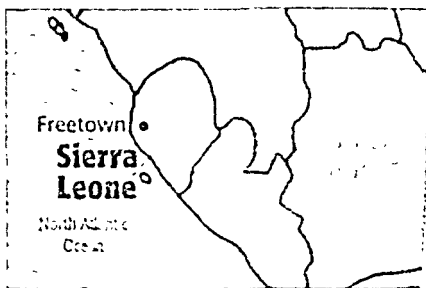
E-mail: sbm@bharti.com

Indian Mission in Seychelles: High Commission of India, Le Chantier, Post Box No. 488, Victoria, Mahe, Seychelles Tel 00-248-224489; Fax: 00-248-224810

E-mail: hicomind@seychelles.net

155. Sierra Leone

(Republic of Sierra Leone)



Capital: Freetown Area: 71,740 sq km; Population: 6,005,250 Languages: English and tribal. Religions: Muslim-60%, Indigenous beliefs-30%, Christian-10%; Literacy: 25%; Life Expectancy: 40.22; Currency: Leone (\$1=2,950); p.c.i: \$ 800; Date of Independence: 27th April, 1961.

Government Type: Constitutional Republic. Head of State & Govt: Sir Armed Tejan Kabbah.

History: Sierra Leone (meaning mountain of the lion) was the name originally given to this area by Portuguese sailors mainly on account of the thunder-storms around its coastal peaks. It lies on the West African bulge, between Guinea and Liberia.

Formerly under British rule, Sierra Leone became independent in 1961 and a republic in 1971.

A military coup in May '97 overthrew the government of President Ahmad Tejan Kabbah. In March, '98, the junta headed by Lt. Col. Johnny Paul Koroma was ousted by Nigeria - led troops acting in the name of ECOWAS, and President Kabbah was reinstated. In July, a UN military observer mission was authorized by the Security Council. The 70-member team was to help West African peacekeepers to demobilise remnants of the former ruling junta.

The country, after nearly nine years of civil war, lies in ruins today. Nearly 10% of the population have fled to neighbouring countries. In UNDP's list of 174 countries (1999), Sierra Leone was the last. The country lost hundreds of lives in rebellion in May, 2000.

Economy: The economy is based on agriculture and mining. Main crops: Cocoa, coffee, palm kernels, rice, ginger. Minerals: Diamonds, gold and bauxite. Industry: Light engineering.

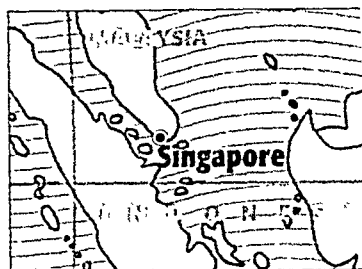
Recent Events: In April 2006, Charles Taylor, the former Liberian President faced war crimes charges in a UN-backed court in Sierra Leone over his alleged role in the country's civil war.

Mission in India: Embassy of Sierra Leone Stationed at Tehran.

Indian Mission in Sierra Leone: Honorary Consulate General of India, Post Box No. 26, 5, Rawdon Street, Freetown, Sierra Leone. Tel: 00-232-22-22452; Fax: 00-232-22-226343.

156. Singapore

(Republic of Singapore)



Capital: Singapore city; **Area:** 616.3 sq
Population: 4,492,150; **Languages:** Malay, Chinese, Tamil and English; **Religions:** Buddhist (Chinese), Muslim (Malays), Christian, Hindu, Sikh, Taoist, Confucianist; **Literacy:** 92.5%; **Life Expectancy:** 81.71; **Current Singapore Dollar (\$1=1.69); p.c.i.: \$ 28,1**
Date of Independence: 9th August, 1965.

Government Type: Republic; **President:** S.R. Nathan, **PM:** Lee Hsien Loong.

Singapore is one of the smallest, most densely populated and most prosperous countries in the world. Most of the population live on Singapore island; the rest inhabit neighbouring islets.

History: Modern Singapore was founded in 1819 by Sir Thomas Stamford Raffles the British East India Company, and later became a British crown colony. It was incorporated into the Federation of Malaysia in 1963 but two years later left the federation to become an independent Republic. The population of Singapore is composite. The Chinese comprise 77%, Malays 15% and Indians 6% (1990). S.R. Nathan, a Singaporean of Indian ethnicity was elected unopposed as the country's sixth president in Aug. '99.

Economy: The country is an entrepot for Malaysia and other southeast Asian states. It is one of the world's largest ports. The chief exports are rubber and tin. Industries include tin smelting, rubber, lumber ship-building

textiles and oil refining, (Singapore is the largest oil refining centre in Asia) machinery, chemical products, food, tourism (7.52 m. tourists in 2001) and banking. Standards in health, education and housing are high. Only about 1.7% of the total area is used for farming. Most food is imported.

On January 1, 1996, Singapore was graduated to the status of a 'developed country' by the Organisation for Economic Cooperation and Development (OECD). In May '97, the four Asian 'tigers' (Singapore, Hong Kong, Taiwan and S.Korea) were added to the industrialised countries by IMF.

Recent Events: • Lee Hsien Loong's ruling People's Action party won general elections which were seen as the first real test of the prime minister's popularity.

Mission in India: Singapore High Commission, E-6, Chandragupta Marg, Chanakya-puri, New Delhi-110 021. Tel: 26885659, 26886506; Fax: 26886798.

E-mail: singhnd@giasd101.vsnl.net.in;
Web: www.mfa.gov.sg/newdelhi

Consulate: Consulate General of the Singapore in Mumbai: 101, 10th Floor, Maker Chambers IV, 222, Jammnalal Bajaj Road, Nariman Point, Mumbai-400 021; Ph: 001-91 (22) 220-43205, 001-91 (22) 220-43209

E-mail: MFA_Mumbai@mga.gov.sg

Indian Mission in Singapore: High Commission of India, "India House", 31, Grange Road, P.O. Box No. 92, Singapore-912304. Tel: 00-65-7376777; Fax: 00-65-7326909.

E-mail: indiahc@pacific.net.sg

Website: <http://www.embassyofindia.com>

157. Slovakia

(Slovensko)

Capital: Bratislava; **Other Large Cities:** Banska, Bystrica, Zilina; **Area:** 49,036 Sq. km; **Population:** 5,439,448; **Languages:** Slovak, Magyar; **Religions:** Roman Catholic-68.9%, Protestant-10.8%, Greek Catholic -

4.1%, other or unspecified-3.2%, none-13%; **Literacy:** 100%; **Life Expectancy:** 74.73; **Currency:** Koruna (Crown) (\$1=30.13); **p.c.i:** \$ 16,100; **Date of Independence:** 1st January, 1993.

Government Type: Parliamentary Democracy; **President:** Ivan Gasparovic; **PM:** Robert Fico.

History: The Czechoslovak federal republic was dissolved on Dec. 31, 1992, and the two new republics of Czech and Slovakia were born on Jan. 1, 1993. (See Czech Republic for details).

Slovakia is bounded by Poland, Ukraine, Czech republic, Austria and Hungary.

In the former Czechoslovakia, Slovakia was less industrialised than the Czech land.

Economy: Wheat, barley, potatoes, vegetables, fruits, sugarbeet are the main agricultural products. In 1993, agriculture produced 20% of GDP.

Industry: Metallurgy, engineering, chemical, textile, glass. Main exports are chemicals, plastics, tractors and electronics items. Minerals: Coal, magnesite, metallic ore.

The Danube is the most important river. The underground ice and icicle caves are great tourist attractions, one of the largest being the Demanovska Cave of Freedom.

Recent Events: • Court intervened to end strike by doctors and nurses over pay and sell-offs in the healthcare sector.

Mission in India: Embassy of the Slovak Republic, 50-M, Niti Marg, Chanakya-puri, New Delhi-110021. Tel: 24101015, 26111075; Fax: 26877941.

E-mail: skdelhi@giasd101.vsnl.net.in



Indian Mission in Slovak Republic: Embassy India, Radlinskeho 2, 81002, Bratislava, Slovak Republic. Tel: 00-421-7-52931700 (lines); Fax: 00-421-7-5361690
E-mail: eindia@computel.sk
Website: www.eindia.sk

58. Slovenia

(Republic of Slovenia)



Capital: Ljubljana; **Other Large Cities:** Maribor, Celje, Kranj; **Area:** 20,251 sq.km; **Population:** 2,010,347; **Languages:** Slovenian; **Religions:** Catholic -57.8%, Orthodox-2.3%, other Christian-0.9%, Muslim-2.4%, unaffiliated-3.5%, other or unspecified-13%, none-10.1%; **Literacy:** 99.7%; **Life Expectancy:** 76.33; **Currency:** Tolar (\$1=189.6); **p.c.i.:** \$ 21,600; **Date of Independence:** 25th June, 1991.

Government Type: Republic; **President:** Dr. Janez Drnovsek; **PM:** Janez Jansa.

Ethnic breakdown: Slovenes - 91%. others- 9%.

History: The Slovenes settled in their current territory in 6th to 8th centuries but fell under German domination in the 9th century. After 1848, the struggle for unification began. In 1918, Yugoslavia was established, and the majority of the Slovenes entered the new state, which became the Kingdom of the Serbs, Croats and Slovenes. Slovenia, the most affluent Yugoslav republic, declared independence on June 25, 1991. In Feb. 1992,

EC granted recognition and in May, it was admitted to the UN. It is Croatia's main ally. Slovenia joined the European Union on May 1, 2004

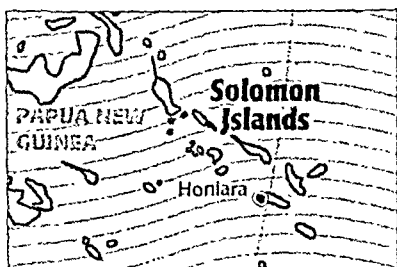
Economy: Wheat, potatoes, maize, timber, livestock are the agricultural products. Industry: Steel, textiles, electricity, motor vehicles, sulphuric acid, bauxite.

Mission in India: Embassy of the Republic of Slovenia, 46, Poorvi Marg, Vasant Vihar, New Delhi-110 057. Tel: 26151249; Fax: 26151247.

E-mail: vnd@mzz-dkp.sigov.si

159. Solomon Islands

Capital: Honiara; **Area:** 29,758 sq. km.; **Popu-**



Population: 552,438; **Languages:** English, Pidgin English, local languages; **Religions:** Church of Melanesia-32.8%, Roman Catholic-19%, South Seas Evangelical-17%, Seventh-Day Adventist-11.2%, United Church-10.3%, Christian Fellowship Church-2.4%, other Christian-4.4%, other-2.4%, unspecified-0.3%, none-0.2%; **Literacy:** 54%; **Life Expectancy:** 72.91; **Currency:** Dollar (\$1= 7.22); **p.c.i.:** \$ 1,700; **Date of Independence:** 7th July, 1978

Government Type: Parliamentary Democracy; **Gov. Gen.:** Nathaniel Waena.; **PM:** Manasseh Sogavare.

History: The Solomon Islands are in the South West Pacific and lie to the east of Papua New Guinea. Originally a British Protectorate, it achieved independence in 1978. It is a

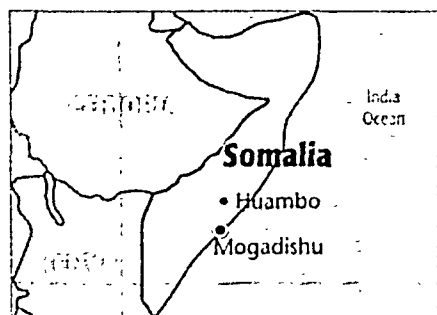
constitutional monarchy with the British Sovereign as Head of State.

The population is predominantly Melanesian.

Economy: Copra is the main cash crop and rice the chief food crop. Other crops: Bananas, yams. Industry: Fish canning, rice milling, food, tobacco. Fish is a vital element in food and an export item.

160. Somalia

(Somalia Democratic Republic)



Capital: Mogadishu; **Other Large Cities:** Hargeisa, Baidoa, Burao; **Area:** 637,657 sq km; **Population:** 8,863,338; **Languages:** Somali, Arabic, English, Italian; **Religions:** Sunni Muslim; **Literacy:** 37.8%; **Life Expectancy:** 48.47; **Currency:** Shilling (\$1=1,340); **p.c.i.:** \$ 600; **Date of Independence:** 1st July, 1960.

Government Type: In transition; **President:** Abdullahi Yusuf Ahmed; **PM:** Ali Muhammad Ghedi.

History: A republic in the Horn of Africa, Somali Democratic Republic was formed by the union of the former Italian Somaliland and the British Somaliland on July 1, 1960. Somalia is essentially a pastoral country, with 80% of people depending on livestock-rearing. It has 40.1 m livestock. Half the population is nomadic.

The year 1992 saw one of the worst famines in Somalia. Ravaged by civil war, the country was in a state of anarchy. Starvation

threatened 50% of the population. Over 800,000 fled to Kenya. Relief efforts were hampered by battles between rival clan factions. In Jan., 1991 President Siad Barre was toppled, ending 21 years of one-man rule. Somalia has been ruled by feud-ing warlords since the overthrow of Siad Barre.

Ali Mahdi Muhammad (United Somali Congress) became President in Aug. 1991. Interfactional fighting continued. A new coalition government under the chairmanship of Gen. Muhammad Farah Aidid agreed to a UN military presence to back up relief efforts to help famine victims (estimated at 1.5 to 2m.). In Dec. '92, leaders of two of the 14 warring factions, Ali Mahdi Muhammad and Muhammad Farah Aidid, agreed to a peace plan under the aegis of the U.N.

In March, '94, the last of the 30,000 American troops who had landed in Dec. '92 left Somalia, closing a chapter in the costliest humanitarian venture in UN history. A peace accord was signed in June, '94 by 19 Somali leaders, but violence continued. In July, '96 there was heavy fighting between Gen. Aidid's forces and the opposing alliance of self-styled interim President Ali Mahdi Mohamed. Gen. Aidid died in August. Armed factions controlled different parts of the country. President Abdiqasim Salat Hassan and 245 legislators were elected in August, 2000 at a peace conference in Djibouti.

It is estimated that the war and the famine have killed at least 350,000 Somalis. UN said in Aug. '99 that a "blackhole of anarchy" prevailed in Somalia.

In Somaliland, an unrecognised state, independent from Somalia since 1991, a large majority voted in favour of independence from the rest of Somalia, in 2000. But the militias fought for the ports of Kismayo and Bossaso. After 1991, clan-based fighting reduced the country into several fiefdoms ruled by heavily armed clans. Puntland, unrecognised by Somalia, is one of these fiefdoms.

clared independence from Somalia in 1998.

Economy: Sugarcane, bananas, sorghum, maize are the main crops.

Recent Events: In February 2006, transitional Parliament met in Somalia—in the central town of Baidoa—for the first time since it was formed in Kenya in 2004. In March and May, scores of people were killed and hundreds were injured during fierce fighting between rival militia in Mogadishu. It was the worst violence in almost a decade. In June, militias loyal to the Union of Islamic courts took control of Mogadishu and other parts of the south after defeating clan warlords. Rival Somali administrations accused each other of building up supplies of arms. The Transitional Government based in Baidoa said the Islamic courts in Mogadishu were being armed by Eritrea. The Islamic Court said Ethiopian troops were in the country, supporting the government's limited forces.

Mission in India: Embassy of the Republic of Somalia, A-7, Defence Colony, New Delhi - 110024. Tel: 24619559, 24617453. Telex: 31-65010 ESDR IN

161. South Africa

(Republic of South Africa)

Capital: Pretoria (administrative); Cape Town (legislative); Bloemfontein (judicial); **Other Large Cities:** Durban, Johannesburg; **Area:** 1,223,201 sq km; **Population:** 44,187,637; **Languages:** Afrikaans, English and 9 other languages; **Religions:** Zion Christian-11.%, Pen-

tecostal/Charismatic-8.2%, Catholic-7.1%, Methodist-6.8%, Dutch Reformed-6.7%, Anglican-3.8%, other Christian-36%, Islam-1.5%, other-2.3%, unspecified-1.4%, none-15.1%; **Literacy:** 86.4%; **Life Expectancy:** 42.73; **Currency:** Rand (\$1 = 6.845); p.c.i.: \$12,000; **Date of Independence:** 31st May, 1910.

Government Type: Republic; **Head of State & Govt (President):** Thabo M. Mbeki.

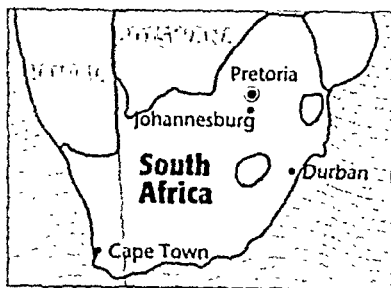
History: The Republic of South Africa lies at the southern tip of the continent of Africa. S. Africa includes the original white colonies of the Cape of Good Hope, Natal, Transvaal and Orange Free State. Formerly known as the Union of South Africa (formed in 1910), it became a republic after leaving the Commonwealth in May 1961.

The country adopted a policy of Apartheid, the separate development of racial groups. Self-government was given to Transkei, Bophuthatswana, Venda and Ciskei. There were six other homelands which were territories with a degree of self-government but still forming the part of the Republic, Kwa Zulu, Gazankulu, Lebowa, Qwaqwa, Ka Ngwane and Kwa Ndebele. The homelands ceased to exist when apartheid ended.

The year 1990 witnessed softening of the Whites' attitude towards the 26 million agitating blacks. The government lifted the ban on African National Congress, the primary black group fighting to end white minority rule, and its leader 71-year-old Nelson Mandela was released from prison after 27 years of confinement.

However, events of 1992 and 1993 once again worsened the situation and hopes of an end to the South African tragedy began thinning. Sporadic factional violence continued between supporters of ANC and the Zulu Inkatha Party.

Constitutional talks began in Dec. '91 but killings interfered, and talks re-opened in Apr. '93. In Dec. parliament adopted a transitional



constitution paving the way for a new multi-racial parliament to be elected in April, '94. Thus the first general election in S. Africa on the basis of a one-person one-vote system took place on Apr. 26-28 and ANC got 62.25% of votes. On May 10, Mandela was sworn in (the first black) President. South Africa was again admitted to OAU, NAM, Commonwealth and UN General Assembly. A new South Africa was born.

The nine new provinces of South Africa are the Western Cape, the Eastern Cape, Kwazulu-Natal, the Northern Cape, Free State, North-West, Gauteng, Eastern Transvaal, and Northern Transvaal.

On May 8, 1996, South Africa's Constitutional Assembly adopted a post-apartheid constitution.

Economy: South Africa is the richest African country. The major agricultural products are cotton, wheat, maize, tobacco, sugarcane, citrus fruits and dairy products. With vast mineral resources, South Africa is the biggest gold and diamond producing country in the world and one of the biggest producers of uranium. About 47 per cent of the world's total production of gold is from South Africa. Other minerals include coal, copper, tin, manganese, iron, lead and chrome. Manufacturing industries include heavy engineering, chemicals, textiles, steel, plastic and food processing.

South Africa is the only country in the world which, having exploded a nuclear device with US collaboration renounced the nuclear path subsequently and signed both NPT and CTBT. The Truth Commission (1995) headed by Desmond Tutu investigated human rights abuses under apartheid and a report was submitted.

On July 18, 1998, Nelson Mandela married Graca Machel. He retired in June, '99. Thabo Mbeki took over on June 16.

Recent Events: In May 2006, former Deputy President Jacob Zuma was acquitted

of rape charges by the High Court in Johannesburg.

Mission in India: High Commission of the Republic of South Africa, B 18, Vasant Marg, Vasant Vihar, New Delhi-110 057, Tel: 2614 9411-19; Fax: 2614 3605.

E-mail: sahcvisa@now-india.net.in (Visa); highcommissioner@sahc-india.com (High Commissioner).

Website: www.sahc-india.com

Indian Mission in South Africa: High Commission of India, 852, Schoeman Street, Arcadia-0083, Pretoria, South Africa. Tel: 00-27-12-3425392; Fax: 00-27-12-3425310. E-mail: dhc@iafrica.com

162. Spain

(Espana)

Capital: Madrid; **Other Large Cities:** Barcelona, Valencia, Seville; **Area:** 504,750 sq km; **Population:** 40,397,842; **Languages:** Spanish, Catalan, Basque, Galician; **Religions:** Roman Catholic-94%, others-6%; **Literacy:** 97.9%; **Life Expectancy:** 79.65; **Currency:** Euro (\$1=0.79); **p.c.i.:** \$ 25,500; **Date of Independence:** 1492.

Government Type: Parliamentary Monarchy; **Head of State:** King Juan Carlos I. **PM:** Jose Luis Rodriguez Zapatero.

History: With the discovery of America for Spain by Columbus in 1492, Spain became a great colonial empire. After the defeat of the Spanish Armada by England in 1588, Spain shrunk into a minor continental power. In



1939, it passed under the dictatorship of Gen. Franco. On Franco's death in 1975, Spain became a constitutional monarchy. In 1981, there was an unsuccessful coup attempt. The Socialist Workers' Party won four consecutive general elections from 1982 to '93. In 1996, a coalition of conservative and regional parties came to power. Spain is one of the 25 members of the European Union.

In 1980, Catalonia and the Basque country were given autonomy. Basque extremists have continued their campaign for independence. The moderate nationalist Basque party, PNV emerged triumphant in May, 2001 elections in Basque province. Basque voters made it clear that they neither favour ETA's terror campaign nor approve of Govt's no-dialogue stand.

Economy: The economy (\$828 b.) is the ninth largest in the world. Contribution of farming and fishing to overall GDP is about 4% only (This was 65% in the 60s), industry contributes 31%, and services 65%.

Main crops are cereals, grapes, olives, vegetables and fruits. Industries include chemicals, machine tools, automobiles, ship-building, steel, textiles and processed foods, paper, cement.

Recent Events: In January 2006, Lt. Gen. Jose Mena Aguado was sacked as head of army ground forces after suggesting that the military might take action in Catalonia if the region gained too much autonomy. In March, Eta declared ceasefire. In June, voters in Catalonia backed proposals to give the region greater autonomy as well as the status of a nation within Spain. In July, dozens of people were killed in an underground train crash in the eastern city of Valencia.

Mission in India: Embassy of Spain, 16, Sunder Nagar, New Delhi-110003. Tel: 24359004-7; Fax: 24359040, 24359008.

E-mail: embpain@vsnl.com

Consulate: Mumbai: Tel: 22874797, Fax: 22043625; Calcutta : Tel: 24695954, Fax:

24691283, 24692143; Chennai: Tel: 24942008, Fax: 24616978.

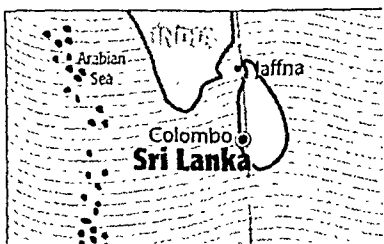
Indian Mission in Spain: Embassy of India, Avandia Pio XII 30-32, 28016, Madrid, Spain. Tel: 00-34-911-3450406, 3450265; Fax: 00-34-91-3451112 (Embassy).

E-mail: comind@accessnet.es

Website: <http://www.visualware.es/indi>

163. Sri Lanka

(Democratic Socialist Republic of Sri Lanka)
Sri Lanka Prajathanthrika Samajava
Janarajaya



Capital: Colombo; **Other Large Cities:** Kand Jaffna, Galle; ; **Area:** 65,610 sq.km.; **Population:** 20,222,240; **Languages:** Sinhala, Tamil & English; **Religions:** Buddhist-69%, Hindu 15%, Christian-8%, Muslim-7%; **Literacy:** 92.3%; **Life Expectancy:** 73.41; **Currency:** Rupee (US\$1=103.57); **p.c.i:** \$ 4,300; **Date of Independence:** 4th February, 1948.

Government Type: Republic; **President:** Mahinda Rajapakse;

Sri Lanka is an island in the Indian Ocean about 80 km east of the southern tip of India.

History: Known to the ancient world as Taprobane and later as Serendip, the island was also known as Lanka, Sinhala Deepa and Seelan at different times. Until 1972, it was Ceylon. The country became independent on 4 February 1948 and on 22 May the Republic of Sri Lanka was created.

Before the new republican constitution was promulgated, a youth insurrection in April

1971 rocked prime minister Sirimavo Bandaranaike's (world's first woman PM) United Front government, leading to her imposing several harsh socialist measures. By the 1977 general election, a country tired of endemic scarcities and rising prices swept her out of office.

The United National Party (UNP) administration of Prime Minister Junius Jayewardene, which took over, replaced the 1972 constitution and Jayewardene assumed unprecedented power as executive president, becoming both head of state and head of government. He was elected to a second six-year term in October 1982, and in a referendum won a mandate to extend parliament to 1989. In late 1988, former prime minister Ranasinghe Premadasa was elected executive president for a 6-year term.

The Tamils in Sri Lanka have been fighting for more power for over a decade. In 1978, some concessions such as the recognition of the Tamil language were made. TULF—Tamil United Liberation Front—spearheaded the agitation. Later more militant organisations like the LTTE—Liberation Tigers of Tamil Eelam—and EPRLF—Eelam People's Revolutionary Liberation Front joined the struggle. More than 4,000 have died in the civil war.

On 29 July 1987, however, an important breakthrough was made when President Jayewardene and the Indian PM, Rajiv Gandhi signed an accord regarding a settlement of the country's ethnic crisis. Accordingly an IPKF—Indian Peacekeeping Force—was sent to the island to end the hostilities and supervise surrender of arms. After a long period of bloody military operation, the IPKF started pulling out its forces on Sept. 20, 1989.

In November, Parliament adopted the legislation establishing provincial councils. In the election held in the North Eastern Province under the Peace Plan, Varadaraja Perumal of the EPRLF became Chief Minister.

President Ranasinghe Premadasa lifted the

emergency after more than 5½ years on January 11, 1989 and general elections were held in February. United National Party won and the former Finance Minister D.B. Wijetunge was appointed Prime Minister.

President R. Premadasa, 69, was assassinated by a suicide bomber on May 1, 1993 and the Prime Minister D.B. Wijetunge, 71, was elected President. Ranil Wickremesinghe was appointed Prime Minister.

Parliamentary elections were held on 19 August 1994, and Chandrika Kumaratunga formed the government.

After the Presidential elections of 9 Nov., Chandrika Kumaratunga became President. Under the new government, her mother Sirimavo Bandaranaike was made Prime Minister. Mrs. Bandaranaike died on Oct. 10, 2000.

War between northern Tamil separatists and govt. forces continued, in spite of a ceasefire of Jan. 3, 1995. In Jan. '98, the govt. outlawed LTTE. Jaffna Mayor Ms. Sarojini Yogeswaran was assassinated by LTTE in May. In Aug., the public emergency was extended to all over Sri Lanka.

Economy: Sri Lanka's predominantly rural population is concentrated in the west, south and south-west regions, where rubber, tea and coconuts are grown. About one-half of the working population are engaged in agriculture, forestry and fishing, and only agriculture provides 21% of the gross domestic product (GDP). Of the total area of 6,561,000 hectares, about 2m. hectares are under cultivation. Agriculture engages about 45% of the labour force. The main crops are paddy, rubber, tea and coconuts.

In 1978, Sri Lanka was the world's largest exporter of tea, when tea, rubber and coconut together contributed about 70% of total export earnings. This position gradually declined. However, early 1990s showed signs of revival. The 1993-97 plan aimed at an annual growth rate. The main industries are food, beverages, tobacco, textiles.

and leather goods, chemicals, petroleum, rubber and plastics. Principal exports are tea, rubber, copra, coconut oil and desiccated coconut, textiles and garments, precious and semi-precious stones. Gems are among the chief minerals mined and exported. Principal imports are petroleum, machinery and equipment, vehicles transport equipment and food and beverages.

Experimental television broadcasting began in April 1979. Roopavahini, a national television network was established, with stations at Mount Pidurutalagala, Kokavil and Kandy, from which telecasting began in December 1982.

Recent Events: In February 2006, government and Tamil Tiger rebels declared their respect for the 2002 ceasefire at talks in Geneva. In April, explosions and rioting in Trincomalee, in the north-east, left 16 people dead. Police blamed Tamil Tiger rebels for the blasts, which came amid a marked escalation in deadly violence. In June, 64 people were killed in a mine attack on a bus in Anuradhapura district. Days later, more than 30 people were killed in a land and sea battle between government forces and Tamil Tiger rebels.

Mission in India: High Commission for the Democratic Socialist Republic of Sri Lanka, 27-Kautilya Marg, Chanakyapuri, New Delhi - 110021. Tel: 23010201-03; Fax: 23793604.

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Deputy High Commission of the Democratic Socialist Republic of Sri Lanka, 196, T.T.K. Road, Alwarpet, Chennai- 600 018. Tel. 4987896, 4987612; Fax: 4987894.

India: Mumbai

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Consulate: Consulate General of the Democratic Socialist Republic of Sri Lanka "Sri Lanka House", 34 Homi Mody Street Mumbai - 400 023, India. Tel : 2045861, 204803; Fax: 2876132

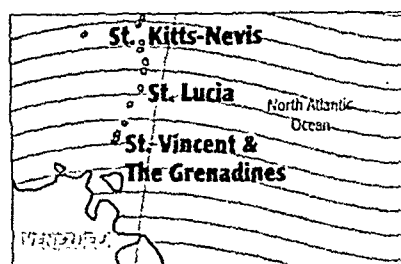
E-mail: slcon@bom5.vsnl.net.in

Indian Mission in Sri Lanka: High Commission of India, 36-38, Galle Road, P.O.Box No. 882, Colombo 3, Sri Lanka. Tel: 00-94-1-421605, 422788, 422789; Fax: 00-94-1-446403, 448166.

E-mail: hcicmbpl@sri.lanka.net

164. St. Kitts-Nevis

(Federation of St. Kitts and Nevis)



Capital: Basseterre; **Area:** 269 sq km; **Population:** 39,129; **Languages:** English and Patois; **Religions:** Anglican, Other Protestant, Roman Catholic; **Literacy:** 97.8% ; **Life Expectancy:** 72.4; **Currency:** East Caribbean Dollar (\$1= 2.66); **p.c.i.:** \$ 8,800; **Date of Independence:** 19th September, 1983.

Government Type: Constitutional Monarchy; **Gov. Gen.:** Cuthbert M. Sebastian. **PM:** Dr. Denzil Douglas.

History: St. Christopher (Kitts)-Nevis is two islands in East Caribbean separated by a narrow channel 3.2 km wide. The islands were given the status of an Associate State of the U.K. in 1967 and became independent on Sept. 19, 1983. At that time Anguilla was part of St. Kitts-Nevis. The Anguillians revolted against this arrangement and Anguilla was separated. Nevis has the right of secession.

In August, '98, the 62% of people of Nevis (population: 9000) voted in favour of leaving the federation, but failed to reach the two-thirds majority needed for secession.

The population is mostly black.

Economy: The economy is agricultural, cotton and sugar being the principal crops. Industries: Sugar, construction, clothing, tourism.

165. St. Lucia

Capital: Castries; **Area:** 616 sq km; **Population:** 168,458; **Languages:** English and French Patois; **Literacy:** 80%; **Religions:** Roman Catholic-67.5%, Seventh Day Adventist-5.5%, Pentecostal-5.7%, Anglican-2%, Evangelical-2%, other Christian-5.1%, Rastafarian-1.1%, other-1.1%, unspecified-1.5%, none-5.5%; **Literacy:** 90.1%; **Life Expectancy:** 73.84; **Currency:** East Caribbean Dollar (\$1=2.70); **p.c.i.:** \$ 5,400; **Date of Independence:** 22nd February, 1979.

Government Type: Parliamentary Democracy; **Gov. Gen.:** Calliopa P. Louisy; **PM:** Kenny Anthony.

History: St. Lucia, in Eastern Caribbean, is the second largest island in the Windward group. Volcanic in origin. St. Lucia was ceded to Britain by France in 1814. Self-government was granted in 1967. It became independent on Feb. 22, 1979. There is a 17-seat House of Assembly.

Economy: The economy is agricultural, coconut, bananas and cocoa being the main crops. Manufactures include soap, plastics, garments and beer.

166. St. Vincent & The Grenadines

Capital: Kingstown; **Area:** 388 sq km; **Population:** 117,848; **Languages:** English and French Patois; **Religions:** Anglican-47%, Methodist-28%, Roman Catholic-13%, Hindu, Seventh Day Adventist, Other Protestant; **Literacy:** 96%; **Life Expectancy:** 73.85; **Currency:** East Caribbean Dollar (\$1=2.70); **p.c.i.:** \$ 2,900; **Date of Independence:** 27th October, 1979.

Government Type: Parliamentary Democracy; **Gov. Gen:** Sir Fredrick Nathaniel Bailantyne; **PM:** Ralph E Gonsalves.

History: One of the Windward islands, west

of Barbados, St. Vincent became a British Associated State in 1969 and achieved independence on Oct. 27, 1979.

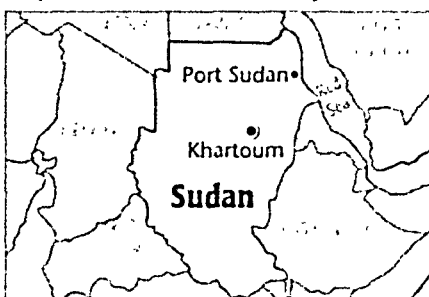
St. Vincent (345 sq.km.), chief island of the chain, is dominated by the volcano La Soufriere. (It erupted in 1979). The Grenadines is a chain of islets with a total area of 43 sq.km.

The population is of mixed origin: European-Negro and Carib-Indian.

Economy: Bananas, arrowroot, copra, sea island cotton and spices are the main products. **Industry:** Food-processing, electronic equipment assembly, garments, tourism.

167. Sudan

(Republic of the Sudan) Jumhuriyat as-Sudan



Capital: Khartoum; **Other Large Cities:** Omdurman, Port Sudan; **Area:** 2,505,813 sq km; **Population:** 41,236,378; **Languages:** Arabic, English, Dinka, Nubian etc.; **Religions:** Sunni Muslim-70% (in the north), indigenous beliefs-25%, Christian-5% (mostly in the south and in Khartoum); **Literacy:** 61.1 %; **Life Expectancy:** 58.92; **Currency:** Dinar (\$1=219.145); **p.c.i.:** 2,100; **Date of Independence:** 1st January, 1956.

Government Type: Republic with strong military influence; **Head of State and Govt (President):** Lt. Gen. Omar Hassan al-Bashir.

History: The Sudan, the largest African country, is a republic in north east Africa. The White Nile flows through the middle of the country and joins the Blue Nile at Khartoum.

Sudan became a sovereign independent republic in Jan., 1956.

The 12 northern provinces are predominantly Arab-Muslim, and the 3 southern provinces are populated largely by Christians and animists.

The Sudanese People's Liberation Army (SPLA) (the mainstream rebel group which has been fighting for 16 years to free mainly Christian and animist south Sudan from domination by Islamic, Arabised north) maintains guerilla activities in the south. 1.5m. people have been dead from violence and famine.

In Apr. '97, Sudan's Islamic government and four southern rebel groups signed a peace treaty to end the civil war, by which a referendum is to be held after four years for Southerners to decide whether to secede or remain in Sudan. Famine and starvation were reported to be the worst in 1998. UN World Food Programme were flying in food as SPLA called a unilateral ceasefire in their fight with the north. Peace talks in Addis Ababa failed in August.

Economy: The main agricultural crop sorghum is the country's staple food and cotton is the most important cash crop and main export. Other products include gum arabic (world's principal producer), sugarcane, sesame, peanuts, dates, hides and skins, chillies, beans and corn. Forests cover about one-fifth of the land area, and most productive woodland is state-owned. Sudan's mineral wealth includes copper, gold, iron and oil. **Industry:** Textiles, food processing.

Recent Events: In May, Khartoum government and the main rebel faction in Darfur signed a peace accord. Two smaller rebel groups rejected the deal. In July, US President George Bush renewed calls for UN peacekeepers to be allowed into Darfur, saying the existing African Union troops needed to be complemented.

Mission in India: Embassy of the Republic of Sudan, Plot No.3, Shantipath,

Chanakyapuri, New Delhi-110021. Tel: 26873785, 26873746; Fax: 26883758.

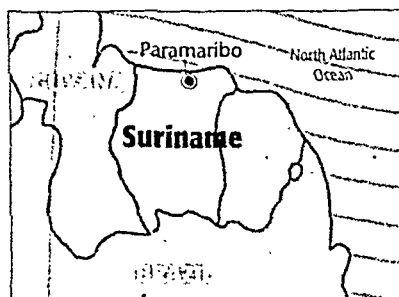
E-mail:sudandel@del3.vsnl.net.in

Indian Mission in Sudan: Embassy of India, P.O. Box 707, 61-Africa Road, Khartoum-II, Sudan. Tel:00-249-11-451202, 451031; Fax: 00-249-11-472266.

E-mail:indembsdn@yahoo.com/india2sudan@yahoo.com

168. Suriname

(Republic of Suriname)



Capital: Paramaribo; **Area:** 163,820 sq km; **Population:** 439,177; **Languages:** Dutch, English, Hindi, Sranantongo (Suri-name) and Javanese; **Religions:** Hindu-27.4%, Muslim-19.6%, Roman Catholic-22.8%, Protestant-25.2% (predominantly Moravian), indigenous beliefs-5%; **Literacy:** 88%; **Life Expectancy:** 69.01; **Currency:** Gulden/Suriname Guilder (\$1= 2.74); **p.c.i.:** \$ 4,100; **Date of Independence:** 25th November, 1975.

Government Type: Republic; **President:** Ronald Venetiaan; **Vice President & PM:** Ram Sardjoe

History: Suriname, formerly Dutch Guyana, lies on the north east coast of South America. It became independent in 1975.

A Military Council came to power in 1982. In 1987 civilian rule was restored. Political turmoil continued, with its adverse effects on the economy.

A boundary dispute between Suriname

and Guyana flared in June, 2000.

Ethnic groups: Creole 35%; Indian 33%; Javanese 16% Bushnegroes (Blacks) 10%; Amerindian 3%.

Economy: The economy is very dependent on exports and imports. Much of the land is given to rice cultivation, managed by Hindustanis. The country is rich in bauxite. Bauxite, alumina and aluminium constitute nearly 80% of the exports. Industry: Aluminium, processed foods, lumber.

Mission in India: Embassy of the Republic of Suriname, C-15, Malcha Marg, Chanakya-puri, New Delhi-110 021; Tel: 26888435, 26888454; Fax: 26888450.

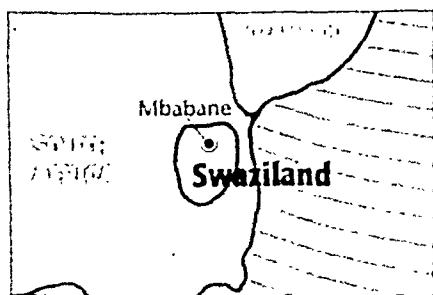
E-mail: emsurnd@mantraonline.com

Indian Mission in Suriname: Embassy of India, 10, Rode Kruislaan, Post Box No. 1329, Paramaribo, Suriname. Tel: 00-597-498344, 498018; Fax: 00-597-491106.

E-mail: ambindia@sr.net /india@sr.net.

169. Swaziland

(Kingdom of Swaziland) Umbuso weSwatini



Capital: Mbabane; **Other Large Cities:** Lobamba, Manzini; **Area:** 17,363 sq km, **Population:** 1,136,334; **Languages:** English and Swazi; **Religions:** Zionist (a combination of Christianity and indigenous ancestral worship) -40%, Roman Catholic-20%, Muslim-10%; **Literacy:** 81.6%; **Life Expectancy:** 32.62; **Currency:** Lilangeni (pl.-emalangeni, (\$1=6.84); p.c.i.: \$ 5,000; **Date of Independence:** 6th September, 1968.

Government Type: Constitutional Monarchy; **Head of State:** King Mswati III. **PM:** Absdom Themba Dlamini.

Swaziland is surrounded almost entirely by South Africa. Mozambique to the east is its only other neighbour.

History: Swaziland, formerly a British protectorate, attained independence on Sept. 6, 1968. In 1973, the king assumed full powers. Political parties were banned in 1978. The 1990s saw moves towards a multiparty system.

The royal house of Swaziland is one of Africa's last ruling dynasties. The population is homogenous, of Nguni descent.

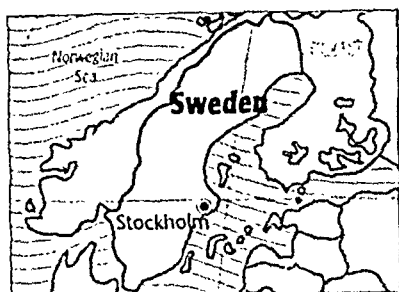
Economy: Sugar is the principal item in the economy, with citrus fruits, cotton, rice and maize, coming next. But the main wealth of the Swazis is cattle. There are considerable mineral reserves, especially, asbestos, iron and coal. **Industry:** Wood pulp, cotton ginning and meat processing.

Recent Events: In March 2006, 16 opposition activists from the banned Pudeno party were freed on bail after being charged in December and January over series of petrol bomb attacks. The European Union banned more than 90 airlines, including six registered in Swaziland, in a move to boost air safety. In April, South African police fired at protesters trying to blockade a border crossing with Swaziland to demand political reform there.

Mission in India: Embassy of Swaziland stationed at Kuala Lumpur.

170. Sweden

(Kingdom of Sweden) Konungariket Sverige
Capital: Stockholm; **Other Large Cities:** Göteborg, Malmö, Uppsala
Area: 447,900 sq km. **Population:** 9,015,500
Languages: Swedish, **Religions:** Lutheran, Roman Catholic, Orthodox, Evangelical, Buddhist, **Literacy:** 99%
Currency: Krona



\$29,800; Date of Independence: 6th June, 1523.

Government Type: Constitutional Monarchy; Head of State: King Carl XVI Gustaf. PM: Goran Persson.

History: Sweden which occupies the eastern part of the Scandinavian peninsula, is the largest of the Nordic countries and in terms of area, the fourth largest country in Europe. Mountains cover 25% of the country. A constitutional monarchy since 1434, Sweden is the world's first widely comprehensive welfare state. Stockholm is known as "Beauty on the Sea".

Economy: Sweden has rich natural supplies of coniferous forest, water power, iron ore and uranium.

Highly industrialised, Sweden today exports 40% of its industrial production. Major industries: Steel, machinery, instruments, autos, ship building and paper. Main crops: Grains, potatoes, sugar beets and dairy products. Forests (half the country) yield 16% of exports.

Sweden entered the EU on Jan. 1, 1995 but decided against joining NATO.

In 2000, Sweden voted in favour of adopting euro as its currency.

Recent Events: Foreign Minister Laila Freivalds resigned amid row over her ministry's involvement in closure of website which had been due to publish controversial cartoons depicting prophet Mohammad.

Mission in India: Embassy of Sweden, Nyaya Marg, Chanakyapuri, New Delhi-110

021. Tel: 24197100; Fax: 26885401, 26885540.

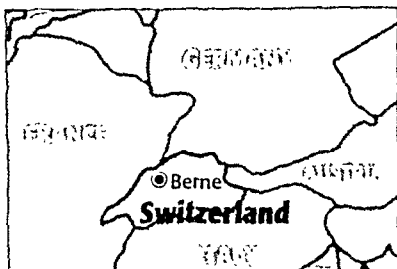
E-mail: ambassaden.new-delhi@foreign.ministry.se Web: www.swedenembindia.com

Indian Mission in Sweden: Embassy of India, Adolf Fredriks Kyrkogata 12, Box 1340, 111 83 Stockholm, Sweden. Tel: 00-468-107008; Fax: 00-468-248505.

E-mail: information@indianembassy.se

171. Switzerland

(Swiss Confederation)



Capital: Berne; **Other Large Cities:** Zurich, Basel, Geneva, Lausanne; **Area:** 41,293 sq.km.; **Population:** 7,523,934; **Languages:** German, French, Italian and Romansch; **Religions:** Roman Catholic-41.8%, Protestant-35.3%, orthodox-1.8%, other Christian-0.4%, Muslim-4.3%, other-1%, unspecified-4.3%, none-11.1%; **Literacy:** 99%; **Life Expectancy:** 80.51; **Currency:** Franc (\$1 = 1.23); **p.c.i.:** \$ 32,300; **Date of Independence:** 1st August, 1291.

Government Type: Federal Republic; **President:** Moritz Leuenberger

Switzerland, a Confederation in Central Europe is a mountainous country, with the Alps covering 60% of the land area. The country is famous for its lakes. About one-fourth of the area is covered by mountains and glaciers.

History: Since 1291, Switzerland (called Helvetia in ancient times) has remained a completely independent country, and has not

involved in a foreign war since 1515. A resident is elected to a nonrenewable four-year term. It is a multi-lingual state with people speaking more than one language. It has 1.24 million foreign residents. In a referendum in 1986, the electorate voted against joining the UN. In 1971, women were given the vote in federal elections and the right to hold federal office. Switzerland joined (June '97) NATO's security cooperation pact called the Partnership for Peace.

Economy: The Swiss terrain offers little scope for farming. Nearly half the nation's food has to be imported. Mountain slopes are used for pasture for beef and dairy cattle. Crops include grains, potatoes, sugar beets, apples, vegetables, fruits and wine. Forests help by providing plenty of wood. From the earliest times, Switzerland has been famous for its watch and precision industries-high quality products but on a small-scale production. Agricultural sector contributes only 3.2% of GNP.

Swiss-made watches and clocks are famous all over the world. Precision tools and machines are another specialised industry. Fabrics and textiles are part of Switzerland's image. Other industries: Steel, textiles, food-stuffs (cheese, chocolate), chemicals, drugs, banking. The engineering, electrical and metal industry accounts for 45% of total exports. Minerals: Salt. Availability of electric power in every corner has fostered growth of all kinds of small industries throughout Switzerland. Domestic and international tourism are important factors in the Swiss economy. Of a total revenue of 2.4 billion Swiss Francs in 2001, 9.7 billion (or 43%) came from domestic tourism. Expenditure by foreign visitors in Switzerland reached some 12.7 billion Swiss Francs (3% of GDP). Switzerland is a leading world bank-centre and the seat of many UN and other international agencies. The nation's strict bank-secrecy rules have been eased since 2000. Geneva was the headquarters of the League of Nations.

Swiss voters approved the modernisation of the country's 125-year old constitution in April, 99. The new document enshrined new rights, including the right to strike.

Mission in India: Nyaya Marg, Chanakyapuri, New Delhi-110 021. Tel: 26878372-74, 26878534; Fax: 26873093.

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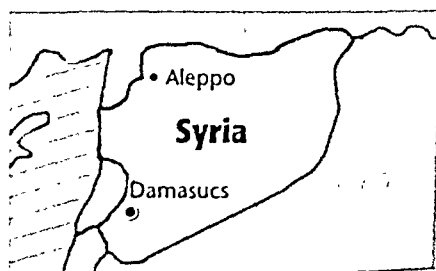
Consulate: Mumbai: 102, Maker Chambers's IV, 10th Floor, 222, Jamna Lal Bajaj Marg, Nariman Point, Mumbai-400 021, Tel: +91 22-22884563-5/22831738, E-mail: vertretung@mum.rep.admin.ch

Indian Mission in Switzerland: Embassy of India, Kirchenfeldstrasse 28, Postfach 406, CH-3000, Berne-6, Switzerland. Tel: 00-41-31-3511110; Fax: 00-41-31-3511557.

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172. Syria

(Syrian Arab Republic)



Capital: Damasucs; **Other Large Cities:** Aleppo, Homs, Hama; **Area:** 185,180 sq.km.; **Population:** 18,881,361; **Languages:** Arabic, Kurdish, Armenian; **Religions:** Sunni Muslim-74%, Alawite, Druze, and other Muslim sects-16%, Christian (various sects)-10%, Jewish-1%; **Literacy:** 76.9% ; **Life Expectancy:** 70.32 ; **Currency:** Syrian Pound (\$1=52.21), **per \$** 3,900 ; **Date of Independence:** 17th April, 1946.

Government Type: Republic (under military regime); **President:** Bashar al-Assad; **Prime Minister:** Muhammad Naji al-Otaydah
The Syrian Arab R

at the eastern end of the Mediterranean Sea. The Orontes and Euphrates rivers pass through Syria. The chief seaport is Latakia.

History: Syria, the seat of an ancient civilization, became a fully independent sovereign republic in 1946.

Syria joined with Egypt in 1958 in the United Arab Republic but seceded in 1961. Principal towns are Damascus, Aleppo and Homs.

Syria has been involved in the Arab-Israeli conflict since 1948. Syria's negotiations with Israel haven't made much headway.

Economy: Agriculture and cattle-breeding comprise the major occupations of the people. The chief crops are cotton, wheat, tobacco and olives. Minerals: Oil, phosphate, gypsum. Industries include oils, soap, textiles, leather, tobacco, sugar and glassware.

Recent Events: In February 2006, Danish and Norwegian embassies in Damascus were set on fire during a demonstration against cartoons in a Danish newspaper satirising the prophet Muhammad. In July, thousands of people fled into Syria to escape Israel's bombardment of Lebanon.

Mission in India: Embassy of Syrian Arab Republic, D-5/8, Vasant Marg, Vasant Vihar, New Delhi - 110057. Tel: 26140233; Telefax: 26143107.

Indian Mission in Syria: Embassy of India, 4046, Adnan Malki Street, Yassin Nouwelati Building, P.O. Box 685, Damascus, Syria. Tel: 00-963-11-3739081/83; Fax: 00-963-11-3316703.

E-mail: indembasy@cyberia.net.lb

173. Taiwan

(Republic of China) Chung-hua Min-kuo

Capital: Taipei; **Other Large Cities:**

Kaohsiung, Taichung; **Area:** 35,981 sq.km.;

Population: 23,036,087; **Languages:** Mandarin

Chinese, Taiwan, Hakka dialects; **Religions:**

Buddhist, Confucian and Taoist-93%, Chris-

tian-5%; **Literacy:** 96.1%; **Life Expectancy:** 77.43; **Currency:** New Taiwan Dollar (\$1=32.467); **p.c.i:** \$ 27,600.

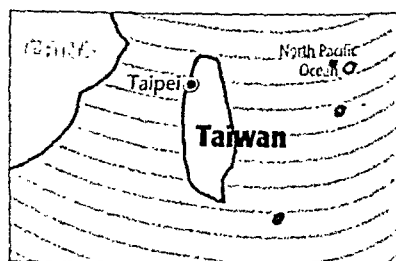
Government Type: Democracy; **President:** Chen Shui-bian. **PM:** Su Tseng-chang

Taiwan, off southeast coast of China and formerly known as Formosa, includes the island of Taiwan, two off-shore islands Quemoy and Matsu, and the nearby islets of the Pescadores chain.

History: Originally Taiwan and adjoining areas were Chinese territory. In 1950, Chiang Kai Shek made Taiwan the headquarters of the Nationalist Republic of China. Although Taiwan still claims to be the legal government of China it lost its membership in the UN and its permanent seat in the Security Council to Communist China in 1971. In 1987, martial law was lifted after 38 years and in 1991, the 43-year period of emergency rule ended. In May, '96 Lee Teng-Hui stormed to a resounding victory in the island's first direct presidential election.

Taiwan has one of the world's strongest economies and is among the 10 leading capital exporters. Taiwan has foreign exchange reserves worth over \$175 b.

According to an official source, Taipei wants to be reunited with China, but not at present. Taiwan is interested in joining international organisations. In Aug. '99, China accused Taiwanese President Lee Teng-Hui of taking a 'dangerous' step towards splitting the country. Teng-Hui said 'One China' was possible but only under a democratic



union with China's mainland. China threatened to invade Taiwan if the President's statehood call was made the official stand.

Economy: The main agricultural products are rice, tea, sugar, sweet potatoes, bananas, jute and turmeric. Camphor secured from forests is a government monopoly. Industries comprise iron works, glass, soap, textiles, clothing, electronics, chemicals, plastics and processed foods. Coal, marble, petroleum and natural gas are the principal minerals. Taiwan has made big progress in agriculture and industry and the living standards have gone high, as a result of land reform, government planning, free universal education and U.S. aid and investment.

More than half a century of Nationalist Party rule ended when Opposition leader Chen Shui-Bian (*Democratic Progressive Party*) was elected in March, 2000).

Recent Events: In February 2006, Taiwan scrapped the National Unification Council, a body set up to deal with reunification with the mainland. China said the decision could bring "disaster". Under pressure over corruption allegations against a family member, President Chen ceded some of his powers to the Prime Minister.

174. Tajikistan

(Republic of Tajikistan)

Capital: Dushanbe; **Other Large Cities:** Khudzand, Kulyab; **Area:** 143,100 sq.km.; **Population:** 7,320,815; **Languages:** Tadjik,



Russian; **Religions:** Sunni Muslim-85%, Shi'a Muslim-5%; **Literary:** 99.4%; **Life Expectancy:** 64.94; **Currency:** Tajik Ruble (\$1=3.23); **p.c.i:** \$ 1,200; **Date of Independence:** 9th September, 1991.

Government Type: Republic; **President:** Imamali Rakhmonov; **PM:** Akil Akilov.

History: A former Soviet republic that became independent in 1991, Tajikistan is bordered by Uzbekistan, Kirghizia, China and Afghanistan.

People who speak an Iranian dialect similar to Persian are considered to be the descendants of the original Aryan population of Turkestan.

In Nov. '92, Parliament voted to abolish presidency and instal a parliamentary republic. A pro-communist regime came in Jan. '93. In Nov. '94, a constitution establishing a presidential system was approved. Muslim rebels continued to fight the regime.

In June '97, government and opposition leaders signed a peace treaty ending five years of bloody civil war. In August, fighting was reported among pro-government warlords. Russia supported President Rakhmonov.

Economy: Farming, horticulture and cattle breeding are the main occupations. **Products:** Grain, potatoes, vegetable, fruit, grapes, meat, milk, eggs, wool, cotton. **Natural resources:** Brown coal, lead, zinc, oil, uranium, radium, arsenic. **Industry:** Mining, engineering, food, textile, clothing, silk, bricks, ferro-concrete, knitwear, footwear.

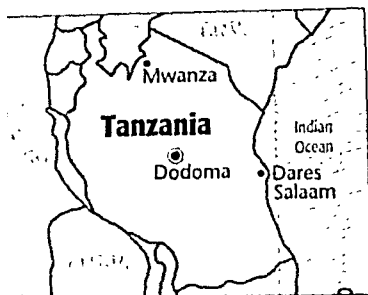
Recent Events: In January 2006, 20 people were killed when an avalanche engulfed an apartment block in mountainous region northeast of Dushanbe. Gaffor Mirzoyev, former top military commander, was sentenced to life imprisonment in August after being convicted on charges of terrorism and plotting to overthrow government. His supporters said the trial was politically motivated.

Mission in India: Hon. C...

stan, Hotel Crowne Plaza Surya, New
ds Colony, New Delhi-110 065. Tel:
5070 Extn: 1155 & 1220; Fax: 26836288.
dian Mission In Tajikistan: Embassy of In-
15, Bukhoro Street (Formerly Sveridenko
t), Dushanbe, Tajikistan. Tel: 00-992-
217172, 211803; Fax: 00-992-372-
345, 510035.
mail:eo@netrt.org

5. Tanzania

(ited Republic of Tanzania)



ipital: Dodoma; Other Large Cities: Dar es
laam, Mwanza; Area: 945,087 sq.km.;
pulation: 37,445,392; Languages: Kiswahili
nd English; Religions: Mainland-Christian-
96%, Muslim-35%, indigenous beliefs-35%,
anzibar-99% Muslim; Literacy: 78.2%; Life
xpectancy: 45.64; Currency: Shilling
1=1,269; p.c.i: \$ 700; Date of Indepen-
ence: 26th April, 1964

Government Type: Republic; President:
ikaya Kikwete.

History: The United Republic of Tanganyika
nd Zanzibar was constituted on April 26,
964 (named Tanzania on Oct. 29), when
the Republic of Tanganyika in East Africa and
the island Republic of Zanzibar ('the Isle of
Cloves'), off the coast of Tanganyika, joined
into a single nation.

Three of Africa's best-known lakes-Victoria,
Tanganyika and Nyasa-and Mount Kiliman-
jaro - the highest in Africa - are in Tanzania.

President Julius K. Nyerere dominated Tan-
zanian politics until he resigned in 1985. In
1967, the government set on a socialist
course, and nationalised banks and many in-
dustries.

The country firmly abandoned socialist
policies and switched over to a market-based
system more than 14 years ago. Privatisation
of the economy was undertaken in the 1990s.
The process of economic recovery, however,
has been painfully slow.

Economy: The economy is agricultural. The
chief cash crops are sisal, sugarcane, cotton,
tea, tobacco and coffee. Cloves are grown
on the islands, chiefly in Pemba. Livestock is
extensively raised. Diamonds are an impor-
tant export. Other minerals include gold, tin
and salt. Industry: Food processing and cloth-
ing.

Recent Events: In April 2006, High Court
outlawed traditional practice of entertaining
candidates during elections. Critics of
"Tadrina" - the giving of tips-said it encour-
aged corruption.

Mission in India: High Commission for the
United Republic of Tanzania, 10/1, Sarv Priya
Vihar, New Delhi-110 016; Tel: 26853046-
47; Fax: 26968408.

E-mail: tanzrep@del2.vsnl.net.in

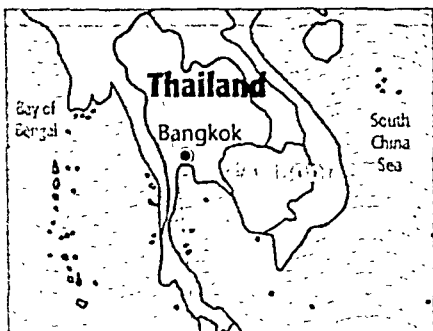
Indian Mission in Tanzania: High Commis-
sion of India, NIC Investment House, Samora
Avenue, 7th & 8th Floor, Wing 'A', P.O. Box
2684, Dar-es-Salaam, Tanzania. Tel: 00-255-
22-2117175; Fax: 00-255-22-2118761/
2116551.

E-mail: hcitz@cats.net.com

176. Thailand

(Kingdom of Thailand) Muang Thai or Prathet
Thai

Capital: Bangkok; Other Large Cities:
Songkhla, Chiang Mai; Area: 513,115 sq.km.;
Population: 64,631,595; Languages: Thai,
Lao, Chinese, English and Malay; Religions:



Buddhist-94.6%, Muslim-4.6%, Christian-0.7%, others-0.1%; Literacy: 92.6%; Life Expectancy: 72.25; Currency: Baht (\$1=38.46); p.c.i: \$ 8,300 ; Date of Independence: 1238.

Government Type: Constitutional Monarchy; **Head of State:** King Bhumibol Adulyadej Abldet; **PM:** Thaksin Shinawatra.

Thailand, formerly known as Siam, is a southeast Asian country.

History: An ancient autocracy, it became a constitutional monarchy in 1932. In 1948, the country assumed its present name Thailand. It is the only southeast Asian country never taken over by a European power. The military took over the government in a bloody 1974 coup. In 1988, there was a democratic election but again military came to power in 1991. General elections were held in July, '95.

Thailand was well on its way to joining the club of Asia's 'economic tigers', when crisis deepened early '98 and the country appealed for help from G-7, and began implementing financial reforms.

On June 9, 1996 King Bhumibol, currently world's longest reigning monarch, completed 50 years on the throne.

In 2000, the Chakri dynasty marked the 200th anniversary.

Economy: Agriculture is the mainstay of the country and engages 60 per cent of the population. The chief crop is rice and Thailand is world's biggest rice exporter - target for 1996 was 5m. tons. Coconuts, tobacco, cotton and teak are the other items of agri-

cultural exports. During the last decade Thailand increased her export of manufactured and processed items. **Industry:** Cement, processed food, textiles, wood, tin, jewelry. **Minerals include tin (one of the largest producers), manganese, tungsten, antimony, lignite and lead.** Since 1982 tourism has been Thailand's largest revenue earner.

Recent Events: In April-May 2006, snap election called by the Prime Minister amid mass rallies against him, was boycotted by the opposition and was subsequently annulled, leaving a political vacuum. The Prime Minister took a seven-week break from politics.

Mission in India: Royal Thai Embassy, 56-N, Nyaya Marg, Chanakyaपुरi, New Delhi - 110 021. Tel: 26118103; Fax: 26872029.

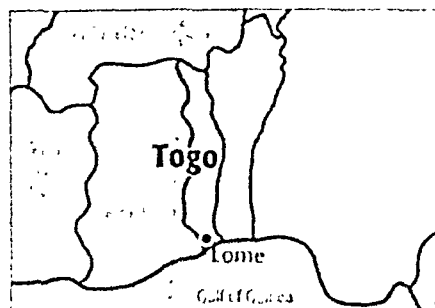
E-mail:thaidel@mfa.go.th

Indian Mission in Thailand: Embassy of India, 46, Soi 23 (Prasannmitr) Sukhumvit Road, Bangkok-10110, Thailand. Tel: 00-66-2-258-0300 to 6; Fax: 00-62-2-258-4627, 2621740.

E-mail:indiaemb@mozart.inet.co.th

177. Togo

(Republic of Togo) Republique Togolaise



Capital: Lome. **Area:** 56,785 sq.km.; **Population:** 5,548,702, **Languages:** French (official) and tribal languages; **Religions:** indigenous beliefs-51%, Christian-29%, Muslim-20%; **Literacy:** 60.9%, **Life Expectancy**

ncy: CFA Franc (\$1=518.98); p.c.i: \$ 1,700;
ate of Independence: 27th April, 1960.

Government Type: Republic; President:
Gnassingbe; PM: Edem Kodjo.

History: The Republic of Togo, formerly
ogoland, lies on the west coast of Africa
forming a narrow strip stretching from the
ulf of Guinea north to Burkina Faso. Gained
independence on Apr. 27, 1960. The first
ulti-party elections were held in 1994. In
18, President Eyadema was re-elected.

Economy: The principal products are cof-
ee, cocoa, cotton, palm kernels, kapok and
roundnuts. Togo's considerable natural re-
sources are still largely undeveloped. Phos-
phates, now being mined in increasing
quantities, form the country's principal ex-
port. Industry: Textiles, shoes, handicrafts, ag-
cultural processing.

The 36th summit of Organisation of Afri-
an Unity was held in Lome in July, 2000.

Recent Events: In April 2006, reconciliation
talks between government and opposition re-
sumed. In August, government and opposi-
tion signed an accord providing for the par-
ticipation of opposition parties in a transi-
tional government.

Mission in India: Honorary Consulate of the
Republic of Togo, T & T Motors Ltd., 212,
Dkhla Industrial Estate, Phase III, New Delhi-
110 020; Tel: 26821005-06; Fax: 6821013.

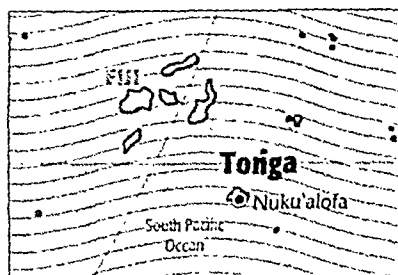
E-mail: tnttalwar@vsnl.net and tandt@ndf.
vsnl.net.in

178. Tonga

Kingdom of Tonga) Puleanga Fakaktui O
Tonga

Capital: Nuku'alofa; Area: 748 sq.km.; Popu-
lation: 114,689; Languages: English and
Tongan; Religions: Christian; Literacy: 98.9%;
Life Expectancy: 69.82; Currency: Pa'anga
\$1=2.0345; p.c.i: \$ 2,300; Date of Inde-
pendence: 4th June, 1970.

Government Type: Constitutional Monar-



chy; Head of State: King Tau'fa'ahau Topou
IV. PM: Feleti Sevele.

History: Tonga (also called Friendly Islands)
consists of 169 islands and islets in the south
western Pacific Ocean. The Tropic of Capri-
corn and the International Dateline cross each
other very near Tonga.

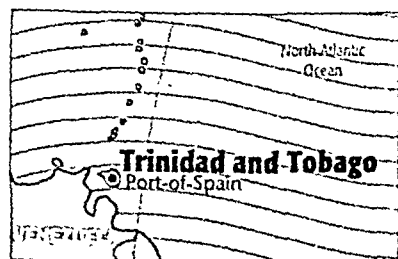
First visited by the Dutch in early 17th cen-
tury, Tonga became a British protectorate in
1900 and independent on June 4, 1970. The
island country was admitted to the United
Nations in Sept. 1999.

Economy: Tonga is an agricultural coun-
try. Crops: coconuts, bananas, vanilla, cof-
fee, ginger. Copra and bananas exported.
Industry: Tourism, coconut products, fishing.

179. Trinidad and Tobago

(Republic of Trinidad and Tobago)

Capital: Port-of-Spain; Other Large Cities: San
Fernando, Arima; Area: 5128 sq.km.; Popu-
lation: 1,065,842; Languages: English; Reli-
gions: Roman Catholic-26%, Hindu-22.5%,
Anglican-7.8%, Baptist-7.8%, Pentecostal-
6.8%, other Christian-5.8%, Muslim-5.8%,



venth Day Adventist-4%, others-26.7%;
eracy: 98.6%; Life Expectancy: 66.76; Cur-
ncy: Tri & Tob Dollar (\$1=6.29); p.c.i: \$
700; Date of Independence: 31st August,
62.

Government Type: Parliamentary Demo-
cy; **President:** George Maxwell Richards;
PM: Patrick Manning.

Trinidad and Tobago are the southernmost
lands of the Caribbean archipelago.

History: Formerly a British Colony, it
achieved independence in 1962 and became
a republic in 1976.

Ethnic profile: African descent 40.8% , In-
dians 40.7%, mixed races 16.3%, European,
Chinese and others 2.2%.

Economy: There are large reserves of pe-
troleum and natural gas. Trinidad and Tobago
is the most diversified and industrialised
economy in the English-speaking Caribbean.
Industries include oil processing, manufac-
tured goods, fertilisers, rum, cement and tour-
ism. Chief crops are sugarcane, citrus fruit,
cocoa, coffee and bananas.

Mission in India: High Commission for the
Republic of Trinidad and Tobago, 6/25, Shanti
Niketan, New Delhi - 1100021. Tel: 6888427; Fax: 26888463.

E-mail: hcreptt@giastl01.vsnl.net.in

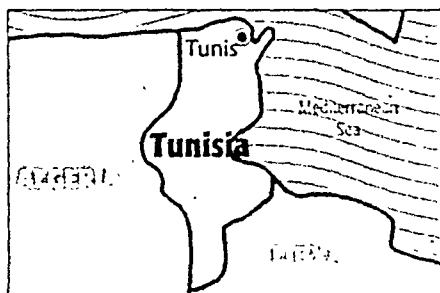
Indian Mission in Trinidad and Tobago:
High Commission of India, No.6, Victoria
avenue, Post Box No. 530, Port of Spain,
Trinidad and Tobago, West Indies. Tel: 00-1-
68-6277480, 6277481; Fax: 00-94-1-868-
276985.

E-mail: hcipos@tstt.net.tt

180. Tunisia

(Republic of Tunisia) Al Jumhuriyah al
Tunisiyah

Capital: Tunis; **Other Large Cities:** Sfax,
Sousse; **Area:** 164,150 sq.km.; **Population:**
10,175,014; **Languages:** Arabic (official) and
French; **Religions:** Muslim-98%, Christian-



1%, Jewish and others-1%; **Literacy:** 74.3%;
Life Expectancy: 75.12; **Currency:** Dinar
(\$1=1.33); p.c.i: \$ 8,300; **Date of Indepen-**
dence: 20th March, 1956.

Government Type: Republic; **President:**
Gen. Zine-al-Abidine Ben Ali. **PM:** Mohamed
Ghannouchi.

History: A republic in North Africa, lying
on the Mediterranean coast and formerly a
French protectorate, Tunisia became autono-
mous in 1956 and assumed republican sta-
tus in 1957. It is the site of ancient Carthage.

Economy: Tunisia is an agricultural coun-
try, and produces wheat, barley, oats, dates,
olives, citrus fruits, almonds, figs, vegetables
and alfa grass. The chief minerals are phos-
phates, iron, lead and zinc. **Industry:** Oil pro-
duction, textiles, leather, fertilisers, construc-
tion materials, food processing. The princi-
pal exports are olive oil, wine, phosphates and
grains.

Mission in India: Embassy of the Republic
of Tunisia, A-42, Vasant Vihar, New Delhi -
110 057. Tel: 2614 5346, 2614 5349; Fax:
26145301.

E-mail: embtundelhi@dishnet.dsl.net

Indian Mission in Tunisia: Embassy of In-
dia, 4, Place Didon, Notre Dame, Tunis 1002
Tel: 00-216-1-787819; Fax: 00-216-1-
783394 E-mail: embassy.india@email.tn

181. Turkey

(Republic of Turkey)

Capital: Ankara; **Other Large**



r, Adana, Bursa; Area: 779,452 sq.km.;
 Population: 70,413,958; Languages: Turkish,
 Persian, Arabic; Religions: Muslim-99.8%
 (mostly Sunni), other-0.2% (mostly Christians
 and Jews); Literacy: 86.5%; Life Expectancy:
 72; Currency: Turkish Lira (\$1=1.596);
 GDP: \$ 8,200; Date of Independence: 29th
 October, 1923

Government Type: Republic; President:
 Necmettin Erbakan, PM: Recep Tayyip
 Erdogan.

Location: Turkey occupies a strategic position,
 acting as a bridge between Asia and Europe at the Straits
 Bosphorus, between the Mediterranean and
 the Black Sea.

History: Asiatic Turkey, that is, Anatolia,
 is the seat of one of the earliest civilizations
 known. Istanbul, the largest city, was first
 known as Byzantium and then as Constan-
 tinople. The Ottoman Turks conquered
 Constantinople in 1453 and founded a Turk-
 ish Empire. In 1923, Turkey became a republic.

Religious and ethnic tensions and active
 left and right extremists have caused endemic
 violence.

Some 12 m Kurds live in Turkey. Kurdish
 militants demand an independent state for
 the Kurds. Kurdish Workers' Party (PKK) leader
 Abdullah Ocalan was arrested in Kenya in Feb.
 1999 and taken to Turkey. In Sept., PKK said it
 would lay down arms once and for all.

In July 1996, in a break with Turkey's 73-
 year record of zealous secularism, Turkish par-

liament gave approval to a coalition govern-
 ment led by the Islamic Party. In June '97,
 conservative Mesut Yilmaz took over as PM.
 In '98, the Islamist party was banned. Wel-
 fare party, the largest political party, was of-
 ficially disbanded for being anti-secular.

A rail link completing the new "silk route"
 between China and Turkey through Central
 Asia started operation in May, '96.

In July, '97, Turkey announced plans to
 gradually integrate northern Cyprus into Tur-
 key, to match any moves by the Greek-Cyp-
 riot part of the divided island to join EU. The
 Turkish Republic of Northern Cyprus is only
 recognised by Ankara. In Dec. '97, EU rejected
 Turkey's candidacy.

On Aug. 17, 1999 a devastating earth-
 quake hit Turkey killing at least 12,000
 people. 600,000 people were made home-
 less.

Economy: Agriculture maintains about 64
 per cent of the population. The chief prod-
 ucts are tobacco, wheat, cotton, olive oil and
 sugar. Turkey is the world's second largest
 producer of sultana raisins. Sheep and cattle
 abound in the plateau of Anatolia and pro-
 vide mohair for which Turkey is famous. The
 main minerals are iron ore, copper, chro-
 mium, bauxite and coal. Industry: Iron, steel,
 machinery, petroleum, metal products, cars,
 processed foods.

Recent Events: In March 2006, 14 sus-
 pected Kurdish rebels were killed by Turkish
 security forces. In April, clashes involving
 Kurdish protesters and security forces resulted
 in at least a dozen deaths in Southeastern
 areas. Baku-Tbilisi-Ceyhan pipeline was for-
 mally opened at ceremony in Turkey after
 Caspian oil started flowing along it.

Mission in India: Embassy of the Republic
 of Turkey, N-50, Nyaya Marg, Chanakyapuri,
 New Delhi-110021. Tel:26889053. Fax:
 26881409.

E-mail:temdelhi@mantraonline.com

Indian Mission in Turkey: Embassy of In-

77-A, Cinnam Caddesi, Cankaya, 06500
Ankara, Turkey. Tel: 00-90-312-4382195;
00-90-312-4403429.
E-mail:chancery@indembassy.org.tr

12. Turkmenistan

(Republic of Turkmenistan) Turkmeno-
stan
publikasy



Capital: Ashkhabad (Poltoratsk); Other Large
Cities: Chardzhou, Mary; Area: 488,100
km.; Population: 5,042,920; Languages:
Turkmen, Russian; Religions: Muslim-89%,
Eastern Orthodox-9%, unknown-2%, Lit-
urgy: 98.8%; Life Expectancy: 61 yrs, Cur-
rency: Manat (\$1=6,200); p.cit: \$ 0,000, Date
of Independence: 27th October, 1991

Government Type: Republic, President is
Saparmurat Niyazov

A former Soviet republic, Turkmenistan is
bounded by the Caspian sea on the west. Its
neighbours are Uzbekistan, Iran and Afghanistan.
The Karakum desert occupies 85% of
the area.

History: The region became part of Soviet
Turkistan in 1925 and a republic of the
USSR in 1925.

In Oct. 1991, Turkmenistan declared indepen-
dence. It was recognised by the UN as a
member of the UN in 1992.

Political system consists of a president
Saparmurat Niyazov.

Economy: Mainly based on oil and gas
exports, cotton, vegetables, silk, sheep, wheat,
rice, etc. are also produced.

Developing agricultural products consist mainly of
Turkmenistan to export most of its export
stuffs. Natural resources of copper, oil, gas,
sulphur, salt, magnesium. Extensive oil and
gas reserves give Turkmenistan an edge over
other former Soviet republics. Industry: Food,
textile, chemical, cement, agricultural imple-
ments, ferrous metals, livestock, knifery. The
country is well sufficient in electricity.

Recent Events: In January 2000, President
Niyazov ordered substantial cuts in expendi-
ture saying he wanted to "bring order" to
the system. In April, an agreement was signed
with Beijing on building pipeline to supply
Turkmen gas to China.

Mission in India: Embassy of Turkmenis-
tan, 6/16, Gandhi Bhawan, New Delhi-
110021; Tel: 26118409, Fax: 26118412
24674810

E-mail: turkmen@vsnl.net

Indian Mission in Turkmenistan: Embassy
of India, Import/Export International House,
Centre, 8, Frigate, 1, Mid 2/1, Bldg. Box 2/6
Ashkhabad, Turkmenistan. Tel: 00-90-312-
456152, 456153, Fax: 00-90-312-456154,
456155

E-mail: india@vsnl.net

183. Tuvalu

Capital: Funafuti. Area: 260 km². Popu-
lation: 11,500. Language: English, Tuvaluan.
Government: British Overseas Territory.
1978, Tuvalu gained independence. It is a
small, island state in the Pacific Ocean.
The main industry is tourism and copra.

History: The region was part of British
Tonga in 1892 and a republic of the
UK in 1978.

In Oct. 1991, Tuvalu declared indepen-
dence. It was recognised by the UN as a
member of the UN in 1992.

Political system consists of a president
Saparmurat Niyazov.

(Tuvaluan coins also upto A\$1) (\$1=A\$ 1.36); p.c.i: \$ 1,100; Date of Independence: 1st October, 1978.

Government Type: Parliamentary Democracy; **Gov. Gen.:** Filoimea Telito; **PM:** Maatia Toafa.

History: Formerly known as the Ellice Islands, Tuvalu is a scattered group of nine small atolls in the Western Pacific Ocean and one of the world's smallest independent nations. It separated from the British Gilbert and Ellice Islands colony in 1975 under the name Tuvalu. Full independence was granted on October 1, 1978.

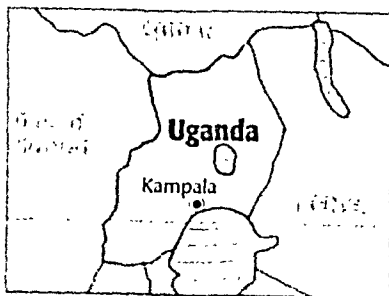
Economy: The poor quality of the soil permits subsistence farming of coconuts only. Most of the foreign exchange is earned through the sale of postage stamps and coins, copra and from remittances by Tuvaluans abroad.

Tuvalu was admitted to the UN as its 189th member in Sept., 2000.

184. Uganda

(Republic of Uganda)

Capital: Kampala; **Other Large Cities :** Jinja, Mbale, Masaka, Entebbe; **Area:** 241,139 sq.km.; **Population:** 28,195,754; **Languages:** English, Luganda and Swahili; **Religions:** Roman Catholic-33%, Protestant-33%, Muslim-16%, indigenous beliefs-18%; **Literacy:** 69.9%; **Life Expectancy:** 52.67; **Currency:** Uganda Shilling (\$1=1,857); p.c.i: \$ 1,800;



Date of Independence: 9th October, 1962.

Government Type: Republic; **President:** Yoweri Museveni. **PM:** Apollo Nsibambi.

History: Uganda is an equatorial state in East Africa. Formerly a British protectorate, Uganda became independent in 1962 and a republic in 1963. A military coup led by Lt. Gen. Tito Okello ousted Milton Obote's govt. in 1985. Milton Obote had himself come to power after ousting dictator Idi Amin in 1979. In 1972, nearly all of Uganda's 45,000 Asians were expelled.

Economy: The economy is agricultural. Main products are coffee (Africa's biggest producer) and cotton. Industry: Tea, sugar, tobacco, textiles, beer and cement. Minerals: Copper, cobalt. Uganda's economy has become the fastest growing in Africa.

Recent Events: In February 2006, President Museveni won multi-party elections, taking 59% of the vote against the 37% share of his rival, Kizza Besigye. In July, peace talks between the government and the LRA began in southern Sudan. On August 4, the LRA declared a unilateral ceasefire.

Mission in India: Uganda High Commission, B-3/26, Vasant Vihar, New Delhi-110 057; Tel: 26144413, 26145817; Fax: 26144405.

E-mail: ughcom@ndb.vsnl.net.in

Indian Mission in Uganda: High Commission of India, Plot 11, Kyandonda Road, Nakasero, P.O. Box 7040, Kampala, Uganda. Tel: 00-256-41-257368, Fax: 00-256-41-254943.

E-mail: hicomind@starcom.co.ug

185. The Ukraine

(Ukrayina)

Capital: Kiev; **Other Large Cities:** Kharkiv, Donetsk, Odessa, Lviv; **Area:** 603,700 sq.km.; **Population:** 46,710,816; **Languages:** Ukrainian, Russian; **Religions:** Ukrainian Orthodox, Moscow Patriarchate, Kiev Patriarch-



ate, Autocephalous Orthodox, Ukrainian Catholic (Uniate), Protestant, Jewish; Literacy: 99.7%; Life Expectancy: 69.98; Currency: Hryvnia (\$1=6.00); p.c.i: \$ 7,200; Date of Independence: 24th August, 1991.

Government Type: Republic; **President:** Viktor A. Yushchenko; **PM:** Tymoshenko.

History: The Ukraine in south-west former USSR became independent in 1991. It has a Black Sea coast and western frontiers with Romania, Hungary, Poland and Czechoslovakia and is bounded north by Byelorussia and otherwise by Russia. Ukraine was one of the founder members of the CIS.

It is the most densely populated of the former Soviet republics. The second richest former Soviet republic, Ukraine contains some of the richest land in former USSR. It is considered the Soviet wheat belt.

In Apr. '86, the world's worst nuclear power plant disaster occurred in Chernobyl, Ukraine. The plant has been closed for good.

In June, '95, Russia and Ukraine reached agreement on the disputed Black Sea fleet at Sevastopol. In June, 1996, Ukraine became a nuclear weapon-free nation with the transfer of the last of its warheads to Russia. A new constitution legalising private property and establishing Ukrainian as the sole official language was approved in the same month.

Economy: Wheat, sugarbeet, sunflower, cotton, flax, tobacco, soya, fruit and vegetables, meat and milk are the main agricultural products. Natural resources: Coal, iron

ore, manganese, oil, salt and chemicals. Industry: Ferrous metallurgical, chemical, machinery, paper, television, consumer goods and food industries.

Recent Events: In January 2006, Russia briefly cut supply of gas for Ukrainian use in row over prices. In March, Viktor Yanukovich's party topped polls in parliamentary elections. Yuliya Tymoshenko's took second place, leaving President Yushchenko's trailing in third. After months of bargaining, the backers of the Orange Revolution - the Yushchenko and Tymoshenko blocs and the socialists - agreed on a coalition, but the deal collapsed. The socialists agreed instead on a coalition with Viktor Yanukovich's party of Regions and the Communists. Faced with a deadline to accept Mr. Yanukovich's nomination or call new elections, president Yushchenko agreed that his rival can become prime minister.

Mission in India: Embassy of Ukraine, No.E-1/8, Vasant Vihar, New Delhi-110 057; Tel: 26146041, 26146042, Fax: 26146043

E-mail:Embassy@bol.net

Web: www.ukraineembassyindia.com

Indian Mission in Ukraine: Embassy of India, 4, Terokhina Street, Padol District, Kyiv-254080, Ukraine. Tel: 00-380-44-4356661; Fax: 00-380-44-4356619.

E-mail:india@public.ua.net

186. United Arab Emirates

Ittihad al-Imarat al-Arabiyyah

Capital: Abu Dhabi; **Other Large Cities:** Dubai,

Sharjah, Ras al-Khaimah; **Area:** 82,880 sq.km;

Population: 2,602,713; **Languages:** Arabic;

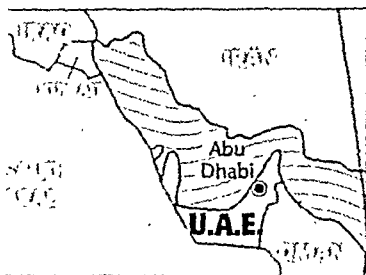
Religions: Muslim-96% (Shi'a-16%), Chris-

tian, Hindu and others-4%; **Literacy:** 77.9%;

Life Expectancy: 75.44; **Currency:** Dirham

(\$1=3.673); p.c.i: \$ 43,400; **Date of Independence:** 2nd December, 1971.

Government Type: Federation of Emirates



President: Sheikh Khalifa bin Zayid Al Nahyan; **Vice President and PM:** Maktoum bin Rashid al-Maktoum.

History: The United Arab Emirates consist seven autonomous emirates in the Persian Gulf—Abu Dhabi, Dubai, Sharjah, Umm-al-Qaiwain, Ajman, Fujairah and Ras-al-Aimah. These were formerly referred to as a 'Trucial States'. Most of the land is barren and sandy. Rainfall is limited and erratic. One-tenth of the population are nomads.

Abu Dhabi, which is the capital of the nation, is the largest of the Emirates in area. Dubai is the main port of the Union and now is the largest harbour in West Asia. Dubai, the commercial hub of the Middle East, is now transforming itself into a manufacturing location and also a cultural, sports, leisure, and shopping centre.

Economy: In the past, the people of this area made their living from subsistence agriculture and fishing, though with little good land or supplies of fresh water the agricultural prospects are limited. A combination of land reclamation and irrigation from underground aquifers allows farmers to grow dates for export and enables the UAE to be self-sufficient in fruit and vegetables. As a result of such efforts, total production increased six-fold during the 1990s.

Both Abu Dhabi and Dubai have steadily been diversifying away from oil into such areas as refining and petro-chemicals. Dubai is the world's largest single-site aluminium smelter and has a major duty-free zone at

Jebel. Tourism is another useful source of income. Dubai's port, airport, and glittering array of hotels, restaurants and shops draw people from all over the region.

Only a tiny proportion of the land area is suitable for agriculture. Crops include dates and alfalfa, along with other fruit varieties and cereals. Besides oil and gas industries, aluminium smelting, trade and financial services are also important.

Recent Events: In January 2006, Sheikh Maktoum bin Rashid al-Maktoum, UAE prime minister and vice-president and ruler of Dubai, died during a visit to Australia. He was succeeded by his brother, Sheikh Mohammed bin Rashid al-Maktoum. In March, a political storm in the United States forced state-owned Dubai Ports World to relinquish control of terminals at six major US ports. Critics of the ports deal feared an increased risk of terrorist attack, saying the United Arab Emirates was the home of two of the 9/11 hijackers. The UAE announced several economic changes, including to the days of the official weekend to improve Western business contacts, and to labour laws to reduce dependence on foreign workers and to allow labourers to form trade unions.

Mission in India: Embassy of the UAE, EP-12, Chandergupta Marg, Chanakyapuri, New Delhi-110 021. Tel: 24670830, 24670945; Telefax: 26873272.

E-mail: embassyemirates@bol.net.in/
embassyabudhabi@bol.net.in

Indian Mission in UAE: Embassy of India, Villa No. 9, Street No. 5, Sector-2/33, Khalidiya, P.O.Box No.4090, Abu Dhabi (UAE). Tel: 00-971-2-6664800; Fax: 00-971-2-6661518.

E-mail: indiauae@emirates.net.ae

187. United Kingdom

United Kingdom of Great Britain and Northern Ireland



Capital: London; **Other Large Cities:** Manchester, Birmingham, Glasgow, Leeds, Liverpool; **Area:** 244,108 sq km; **Population:** 60,609,153; **Languages:** English, Welsh, Scottish and Gaelic; **Religions:** Christian (Anglican, Roman Catholic, Presbyterian, Methodist)-71.6%, Muslim -2.7%, Hindu -1%, unspecified or none-23.1%, **Literacy:** 99%; **Life Expectancy:** 78.54 ; **Currency:** Pound Sterling (\$1=0.540); **p.c.i:** \$ 31,460 ; **Date of Independence:** 1284.

Government Type: Constitutional Monarchy; **Head of State :** Queen Elizabeth II, **PM:** Tony Blair.

History: The United Kingdom(UK) constitutes the greater part of the British Isles. Great Britain is the largest of the islands forming the United Kingdom. It comprises England, Scotland, and Wales. The next largest is Ireland, comprising Northern Ireland, which is part of the UK, and the Irish Republic. Western Scotland is fringed by the large island chains known the inner and Outer Hebrides, and to the north of the Scottish mainland are the Orkney and Shetland islands. All these, along with the Isle of Wight, Anglesey and the Isles of Scilly, have administrative ties with the Mainland, but the Isle of Man in the Irish Sea and the Channel Islands between Great Britain and France are largely self-governing, and are not part of the UK. The UK is one of the 25 member states of the European Union (UN).

The United Kingdom's system of govern-

ment is known as constitutional monarchy, though its constitution is not contained in any one document; instead it has evolved over many years. Ministers of the Crown govern in the name of the Sovereign, who is both head of state and head of the government. Actual power is vested in parliament which is the supreme legislative body in Great Britain. The parliament consists of two houses -the House of Lords and the House of Commons.

Economy: Britain is one of the world's leading industrial and exporting countries. Chief industries are iron and steel, engineering, chemicals, electronics, motor vehicles, metals, machinery, ship building, aircraft, textiles, cloth, other consumer goods and banking. Metals and metal using industries contribute more than 50% of the exports. Britain's coal mines yield about 128 million tons annually. Although Britain's agriculture and trawler fishing are highly mechanised, half of the country's food supplies and most of its raw materials are imported. Chief crops: Grains, sugar, fruits, vegetables.

Severn and Thames are the largest rivers. The most famous church is Westminster Abbey. The most celebrated universities are Oxford and Cambridge. There are about 40 other universities.

England: Population: 49m. A large overseas empire was established. United with Wales (1536), with Scotland (1707) and with Ireland (1801; partition in 1921) to form United Kingdom.

Wales: The principality of Wales in Western Britain has a population of 2,899,000. Cardiff is the capital. English and Welsh are spoken.

Scotland: Scotland occupies the northern 37% of the main British island, and the Hebrides, Orkney, Shetland, and smaller islands. Population: 5,111,000. Edinburgh is the capital.

Northern Ireland is situated in the no-

st of Ireland and forms part of the United Kingdom. It comprises six Ulster counties of Strim, Down, Armagh, Fermanagh, Londonderry and Tyrone. The rest of the island forms the Republic of Ireland. Northern Ireland has been rocked by bloody agitation for union with Catholic Irish Republic. 1985 was an Anglo-Irish agreement which for the first time gave Dublin a say in the running of the province. Population: 1,610,000 and Capital: Belfast.

Agriculture is the main occupation in Northern Ireland. Cattle, sheep, hogs, eggs, poultry, potatoes and milk are the important products. Linen, ropes, twines, rayon, clothing, tobacco, aircraft and shipping form the main branches of industry.

Recent Events: Tony Blair suffered his first House of Commons defeat as Prime Minister when MPs voted against increasing from 14 to 90 days the length of time terror suspects can be held without charge. Instead, they backed increasing it to 28 days. Police in London said they had foiled a terrorist plot on an unimaginable scale "to blow up a number of aeroplanes flying between Britain and the United States."

Mission in India: High Commission for Britain, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 0091-11-24192100, 26872161; Fax: 0091-11-26870060 (Visa).

E-mail: postmasterNewDelhi@fco.gov.uk;
Web: www.ukinindia.com

Consulate: Kolkata: British Deputy High Commission, 1A Ho. Chi Minh Sarani, Kolkata-700 071, Tel: (91-33) 22885172/22885173-76, E-mail: kolkata@fco.gov.uk

Chennai: British Deputy High Commission, 20, Anderson Road, Chennai-600 006, Tel: (91-44) 52192151

Indian Mission in United Kingdom: High Commission of India, India House, Aldwych, London WC2B 4NA, United Kingdom. Tel: 00-44-0207-8368484, 3796242 (After Office); Fax: 00-44-0207-8364331.

E-mail: 114343.3045@compuserve.com

Britain's Dependent Territories

Anguilla, Bermuda, British Antarctic Territory, British Virgin Islands, Cayman Islands, Falkland Islands, Gibraltar, Montserrat, Pitcairn, Ducie, Henderson and Oeno, St. Helena and St. Helena Dependencies (Ascension and Tristan da Cunha), South Georgia and the South Sandwich Islands and Turks and Caicos Islands.

Isle of Man and the Channel Islands are direct dependencies of the Crown with their own legislative and taxation systems.

Isle of Man: It is in the Irish sea. Area: 572 sq.km. Population: 73,112. Capital: Douglas.

The Channel Islands: Off the North-West coast of France are Jersey, Guernsey and the dependencies of Guernsey. Area: 194 sq.km. Population: 152,241.

Anguilla: Formerly Part of St. Kitts-Nevis-Anguilla, it became de facto a separate dependency of Britain in 1969; new constitution in 1982. Area: 155 sq.km. Population: 11,797; Capital: The Valley.

Bermuda: Bermuda is a group of some 300 small coral islands in the Western North-Atlantic. In a referendum in Aug. '95, Bermudans rejected independence. Area: 53.3 sq.km; Population: 63,022; Capital: Hamilton. PM: Pamela Gordon. Population is 60% black. Persons of British or Portuguese stock form the rest.

The chief crops are vegetables, flowers, (Easter lilies specially), bananas and citrus fruits. Tourism is the main source of revenue.

Montserrat: Capital: Plymouth; Area: 102 sq.km; Population: 12,000; Languages: English and Patois; Literacy: 53%; Religions: Christianity; Currency: Eastern Caribbean Dollar; \$1=\$2.69; p.c.i.: \$3127 (1985) Gov: F.J. Savage; Chief Minister: Reuben Meade.

From 1871 to 1956, it formed part of the

federal colony of the Leeward Islands. The island, a British Associate State with full internal autonomy, adopted a constitution in 1960.

188. United States of America

United States of America

Capital: Washington D.C.; Other Large Cities: New York, Los Angeles, Chicago, Houston, Philadelphia, San Diego, Detroit, Dallas, Boston, Miami, Atlanta, Pittsburg, San Francisco; Area: 9,372,614 sq.km.; Population: 298,444,215; Languages: English; Religions: Protestant-52%, Roman Catholic-24%, Mormon-2%, Jewish-1%, Muslim-1%, other-10%, none-10%; Literacy: 97%; Life Expectancy: 77.85; Currency: Dollar (\$1-1.00); p.c.i: \$ 41,800; Date of Independence: 4th July, 1776.

Government Type: Federal Republic; President: George W. Bush.

History: The United States of America is a federal republic composed of a federal district (Washington, D.C.) and 50 states, of

which all except one - Hawaii islands - are in mainland America.

The United States of America, which covers the central part of North America, grew out of the British colonies that were established in North America in the first half of the 17th century. The Declaration of Independence of the 13 states of which the American Union then consisted was adopted by Congress on July 4, 1776.

The victory of the Allies in WW-I made USA a world power. The end of the WW-II saw the emergence of USA as one of the superpowers. With the break-up of USSR in 1991, it has now become the only superpower.

The Union originally comprised 13 states, to which 7 were added subsequently. Thirty other states, which were formerly territories, were also admitted into the Union as full states, thus making up 50 states in all, apart from the District of Columbia. The following table gives the existing states of the Union with their postal abbreviations, capitals, area and population.



States of the Union

Name	Capital	Area (sq km)	Population (1999)
Alabama (AL)*	Montgomery	133916	4,369,862
Alaska (AK)	Juneau	1530700	619,500
Arizona (AZ)	Phoenix	295260	4,778,332
Arkansas (AR)	Little Rock	137754	2,551,373
California (CA)	Sacramento	411049	33,145,121
Colorado (CO)	Denver	269596	4,056,133
Connecticut (CT)	Hartford	12997	3,282,031
Delaware (DE)	Dover	5294	753,538
District of Columbia (DC)	Washington	179	519,000
Florida (FL)	Tallahassee	151940	15,111,244
Georgia (GA)	Atlanta	152577	7,788,240
Hawaii (HI)	Honolulu	16760	1,185,497
Idaho (ID)	Boise	216431	1,251,700
Illinois (IL)	Springfield	145934	12,128,370
Indiana (IN)	Indianapolis	93719	5,942,901
Iowa (IA)	Des Moines	145752	2,869,413
Kansas (KS)	Topeka	213097	2,654,052
Kentucky (KY)	Frankfort	104659	3,960,825
Louisiana (LA)	Baton Rouge	123678	4,372,035
Maine (ME)	Augusta	86156	1,253,040
Maryland (MD)	Annapolis	27091	5,171,634
Massachusetts (MA)	Boston	21456	6,175,169
Michigan (MI)	Lansing	151585	9,863,775
Minnesota (MN)	St. Paul	218601	4,775,508
Mississippi (MS)	Jackson	123515	2,768,619
Missouri (MO)	Jefferson city	180515	5,468,338
Montana (MT)	Helena	380849	882,779
Nebraska (NE)	Lincoln	200349	1,666,028
Nevada (NV)	Carson City	286353	1,809,253
New Hampshire (NH)	Concord	24033	1,201,134
New Jersey (NJ)	Treton	20168	8,143,412
New Mexico (NM)	Santa Fe	314923	1,739,844
New York (NY)	Albany	127190	18,196,601
North Carolina (NC)	Raleigh	136413	7,650,789
North Dakota (ND)	Bismarck	183118	633,666
Ohio (OH)	Columbus	107045	11,256,654
Oklahoma (OK)	Oklahoma City	181186	3,358,044

Oregon (OR)	Salem	251419	3,316,154
Pennsylvania (PA)	Harrisburg	117348	11,994,016
Rhode Island (RI)	Providence	3139	990,819
South Carolina (SC)	Columbia	80583	3,885,736
South Dakota (SD)	Pierre	199730	733,133
Tennessee (TN)	Nashville	109153	5,483,535
Texas (TX)	Austin	691030	20,044,141
Utah (UT)	Salt Lake City	219888	2,129,836
Vermont (VT)	Montpelier	24900	593,740
Virginia (VA)	Richmond	105587	6,872,912
Washington (WA)	Olympia	176480	5,756,361
West Virginia (WV)	Charleston	62758	1,806,928
Wisconsin (WI)	Madison	145436	5,250,446
Wyoming (WY)	Cheyenne	253325	479,602

*Postal two-letter (both capitals) abbreviations for U.S. states were introduced with the ZIP Code in 1963. These are fast replacing the older abbreviations.

Economy: Agriculture: Main crops are maize, wheat, soyabeans, barley, oats, rice, sugar, potatoes, cotton, tobacco and dairy products. Industries: Iron and steel, food and kindred products, chemicals, metal products, electronic equipment, machinery, transportation equipment, paper, petroleum products, fertilisers, plastics. Minerals: Coal, copper, lead, phosphates, uranium, zinc, gold, silver, iron, molybdenum, oil. Oil reserves in USA, the worlds second-biggest oil producer, are expected to last only 10 years if output continues at the current rate. Exports: Machinery, chemicals, motor vehicles, aircraft, military equipment, grains, cereals.

The U.S. is the only industrial country where large population increases are still projected, largely as the result of immigration. The US population used to be called a melting pot; now it is thought of as a 'salad bowl' with discrete ingredients. Even so there is extensive inter-marriage. One-quarter of Hispanics who wed in the USA marry non-Hispanics. One third of Asian-Americans marry non-Asians. Black and white are less likely to intermarry.

ent Events: In March 2006, Congress passed the USA Patriot Act, a centrepiece of the government's fight against terrorism, after months of debate about its impact on civil liberties. The government agreed to some restrictions on information gathering. Millions of protesters and their supporters took to the streets to protest against plans to criminalise illegal immigrants. The only man to be executed over September 11 attacks, self-confessed al-Qaeda conspirator Zacarias Moussawi, was sentenced to life in jail.

Consulate in India: Embassy of the USA, Indian Embassy, Chanakyapuri, New Delhi - 110021. Tel: 24198000; Fax: 24198017; Foreign Commercial Service and Consulate of Congress- 24, Kasturba Gandhi Marg, New Delhi-110 001; Tel:23316841.

Consulate: NDBoxMEA@STATE.GOV
Consulate: Calcutta: 5/1, Ho Chi Minh Road, Calcutta-700 071, West Bengal, Tel: 233 2282-3611/15 Email: Consular Affairs@state.gov; Mumbai: Lincoln House, 100, Mulabhai Desai Road, Mumbai-400 026, Tel: (022) 2363-3611 Email: webmaster-mumbai@state.gov; Chennai: Gemini circle, Anna Salai, Chennai-600 006, Tel: 2811-2811 Email: chennaiIV@state.gov

Indian Mission in United States of America: Consulate of India, 2107, Massachusetts Ave., Washington DC 20008. Tel: 00-1-202-2654000; Fax: 00-1-202-2654351. Email: indembwashington@india.gov.org

Dying Territories

Puerto Rico: (Commonwealth of Puerto Rico); Capital: San Juan; Area: 8891 sq.km; Population: 3.4 m.; Languages: Spanish and English; Religions: Christianity; Currency: Dollar; U.S.C.I: \$6,360

Governor: Dr. Pedro Rossello.
 The island of Puerto Rico lies 80 km east of the island of Haiti and Dominican Republics) in the outer Caribbean. In 1952, it ceased to be a colonial possession and became a free

Commonwealth. It has close ties with U.S. People have U.S. citizenship with no voting rights.

From a purely agricultural country, Puerto Rico (formerly Porto Rico) is fast changing to an industrial economy and is the wealthiest Caribbean island. "The Poor house of the Caribbean" was changed to an area with one of the highest standards of living in Latin America, thanks to the famous "Operation Bootstrap" begun in the late 40s.

In a referendum in November, 1993, Puerto Ricans said no to total merger with USA.

The main crops are sugar, tobacco and coffee. Industries include textiles, clothing, cigars, alcohol, chemicals and household appliances. Tourism is an important source of revenue.

Guam: Area: 541 sq.km.; Population: 149,620; Capital: Agaña.

Commonwealth of the N. Mariana Is: Area: 477 sq.km.; Population: 45,200; Capital: Saipan.

American Samoa: Area: 199 sq.km. Population: 55,223; Capital: Pago Pago.

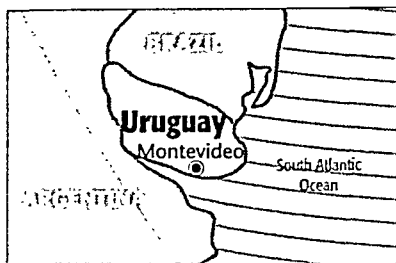
Other Pacific territories: Johnston Atoll (Two small islands 1150 km. southwest of Hawaii. Population: 1200; Midway Islands (Two small islands at the western end of the Hawaiian chain. Population: 453 (1980), Wake Island (Three small islands 3700 k.m. west of Hawaii. Population: 302(1980).

Virgin Islands of the United States: Area:342 sq.km. Population: 101,809; Capital: Charlotta Amalie.

189. Uruguay

(Oriental Republic of Uruguay) Republica Oriental del Uruguay.

Capital: Montevideo, Other Large Cities: Salto, Rivera, Area: 176,215 sq.km. Population: 3,431,932, Languages: Spanish, Religions: Roman Catholic, etc.



Jewish-1%, non-Professing or others-31%; Literacy: 98% ; Life Expectancy: 76.33; Currency: Peso (\$1=23.8); p.c.i: \$ 9,600; Date of Independence: 25th August, 1825

Government Type: Republic; **Head of State & Govt (President):** Tabare Vazquez.

The smallest republic in South America, Uruguay lies in southern S. America, on the Atlantic Ocean.

History: Formerly a part of the Spanish Viceroyalty of Rio de la Plata and subsequently a province of Brazil, Uruguay became independent on Aug. 25, 1825. After a military coup of 1976, civilian government was restored in 1985.

Economy: Livestock-raising is Uruguay's principal occupation and takes up 60 per cent of its total land area. The chief products are meat, wool, hides, corn, wheat, citrus fruit, rice, tobacco, oats and linseed. Important industries are vinery, meatpacking, textiles, cement and oil products.

Socialist measures were adopted as far back as 1911. The welfare programmes earned Uruguay a reputation as the Switzerland of Latin America.

Mission in India: Embassy of Uruguay, A-16/2, Vasant Vihar, New Delhi-110 057, Tel: 26151991, 26151992; Fax: 2614 4306.

E-mail: uruind@del3.vsnl.net.in

190. Uzbekistan

Ozbekiston Respublikasy

Capital: Tashkent; **Other Large Cities:**

Samarkhand, Namangan; **Area:** 447,40 sq.km.; **Population:** 27,307,134; **Language:** Uzbek, Russian; **Religions:** Muslim-88% (mostly Sunnis), Eastern Orthodox-9%, others-3%; **Literacy:** 99.3%; **Life Expectancy:** 64.58; **Currency:** Som (\$1=1222.8), p.c.i.: 1,800; **Date of Independence:** 1st September 1991.

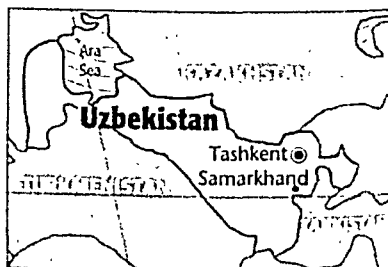
Government Type: Republic; **President:** Islam A. Karimov; **PM:** Shavkat Mirziyayev.

History: A former Soviet republic that became independent in Dec., 1991, Uzbekistan is bordered by Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan and Turkmenistan.

Economy: Agriculture: Uzbekistan has an excellent record in agriculture. Intensive farming, based on artificial irrigation is practised. It is the chief cotton-growing area in the former Soviet Union and the third in the world. It produced 65% of the total cotton, 50% of the total rice and 60% of the total lucerne grown in the former union. Crops: cotton, lucerne, grain, potatoes, vegetables, grapes, fruit and berries. Natural resources: Oil, coal, copper, ozocerite, building materials. Industry: Agricultural machinery, cement, textiles, paper, ferroconcrete.

The Roman alphabet (in use 1929-40) was re-introduced in 1994.

Recent Events: In March 2006, Sanja Umarov, head of the Sunshine Uzbekistan opposition movement, was jailed for 11 years - later reduced to eight- for economic crimes. The group had criticised the Andijan crackdown and had urged economic reforms.



activist Mukhtabar Tojibayeva, a critic of the Andijan crackdown, was jailed for eight years on charges of economic crimes.

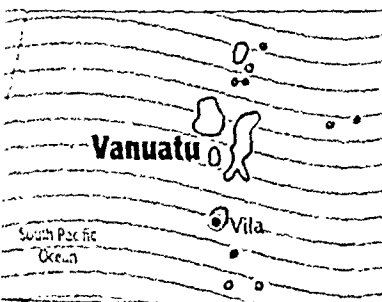
Embassy in India: Embassy of the Republic of Uzbekistan, EP-40, Radhakrishnan Marg, Connaught Place, New Delhi-110021, Tel: 011-26174, 24670775, 24105640; Fax: 011-261773. E-mail: uzembind@vsnl.com

Embassy in Uzbekistan: Embassy of the Russian Federation, 5 Ulitsa Alexie Tolstogo No.3, Tashkent, Uzbekistan. Tel: 00-998-71-1338357; 00-998-71-13619756.

E-mail: indemb@online.ru

1. Vanuatu

(Republic of Vanuatu) Ripablik Blong Vanuatu



Capital: Vila; **Area:** 14,760 sq km; **Population:** 288,869; **Languages:** English, French and Bislama; **Religions:** Presbyterian-36.7%, Anglican-15%, Roman Catholic-15%, indigenous beliefs-7.6%, Seventh-Day Adventist-2.2%, Church of Christ-3.8%, others-15.7%; **Literacy:** 74%; **Life Expectancy:** 62.85; **Currency:** Vatu (\$1=113.45); **p.c.i.:** \$ 2,900; **Date of Independence:** 30th July, 1980.

Government Type: Parliamentary Republic; **President:** Kalkot Matas Kelekele; **PM:** Ham Lini.

History: The Anglo-French condominium of the New Hebrides became independent under the name Vanuatu on July 30, 1980. It is a double chain of 13 large and 80 small islands in South West Pacific. The largest island is the Espiritu Santo. Originally a haunt

of European pirates, they came under the control of France and Britain in 1906. The population is overwhelmingly Melanesian.

Economy: The major cash crops are copra, coffee and cocoa. Vanuatu is a popular tourist destination in the South Pacific.

Industry: Fish-freezing, meat canneries, tourism. Manganese has been mined since 1961 and exported to Japan.

192. Vatican City

(The Holy See) Stato della Cittadel Vaticano



Capital: Vatican City; **Area:** 0.4 sq. km.; **Population:** 900; **Languages:** Latin and Italian; (All languages accepted); **Religions:** Roman Catholic; **Literacy:** 100%; **Currency:** Euro (\$1=0.79); **Date of Independence:** 11th February, 1929.

Government Type: Ecclesiastical; **Supreme Pontiff:** Pope Benedict XVI (Cardinal Joseph Ratzinger). **Secretary of State:** Angelo Sodano.

The Vatican city state, sovereign and independent, is situated on the Vatican hill, on the right bank of the Tiber, within the commune of Rome, Italy. It is completely surrounded by Italy. Vatican City, the City of the Pope, includes St. Peter's Cathedral, Vatican Palace and Museum, the Vatican Gardens and neighbouring buildings. Vatican has its own railway station (for freight only), postal system, police, coins and radio. Radio Vaticana broadcasts an extensive service in 34 languages.

The city state is governed by a commission appointed by the Pope, who has full legislative, executive and judicial powers. The reason for its existence is to provide an extraterritorial, independent base for the Holy See, the government of the Roman Catholic Church. In Dec. '93, the Vatican and Israel agreed to establish formal relations. In March, 1997 Vatican established diplomatic ties with Libya.

193. Venezuela

Republic of Venezuela) Republica de Venezuela



Capital: Caracas; **Other Large Cities:** Maracaibo, Valencia; **Area:** 912,050 sq. km.; **Population:** 25,730,435; **Languages:** Spanish; **Religions:** Nominally Roman Catholic-96%, Protestant-2%, others-2%; **Literacy:** 93.4%; **Life Expectancy:** 74.54; **Currency:** Bolivar, (\$1=2,559.14); **p.c.i:** \$ 6,100; **Date of Independence:** 5th July, 1811.

Government Type: Federal Republic; **Head of State & Govt. (President):** Hugo Chavez.

History: Venezuela (Little Venice) on the Caribbean coast is the northernmost state of South America. Sighted by Columbus in 1498, it was formerly a Spanish colony. Venezuela became independent in 1811 and a republic in 1830. Military strongmen ruled Venezuela for most of the 20th century. Since 1959, it has had democratically elected governments. Venezuela is the richest and most urbanised Latin American nation. The world's

highest waterfall, Angel Falls, with an overall drop of 979 m. is in Venezuela.

Economy: Venezuela, a member of the OPEC, is one of the world's leading producers of oil and the largest oil exporter outside the Middle East. Venezuela is rich in diamonds and ranks 8th in world production. Other minerals are iron, steel, aluminium, copper, tin and manganese. Agricultural products include coffee, cocoa, bananas, maize, rice and sugar.

President Chavez won a landslide victory for a six-year term, in August, 2000 capturing 59% of the votes.

Recent Events: Parties loyal to president Chavez made big gains in parliamentary elections. Opposition parties boycotted the poll, leaving parliament entirely made up of supporters of the president.

Mission in India: Embassy of Venezuela, N-114, Panchshila Park, New Delhi-110 017. Tel: 26496535, 26496783; Fax: 26491686.

E-mail: embavene@del2.vsnl.net.in

Indian Mission in Venezuela: Embassy of India, Quinta Tagore, No.12, Avenida San Carlos, La Floresta, Apartado de Correo 61585, Chacao 1060, Caracas, Venezuela. Tel: 00-58-212-2857887; Fax: 00-58-2865131.

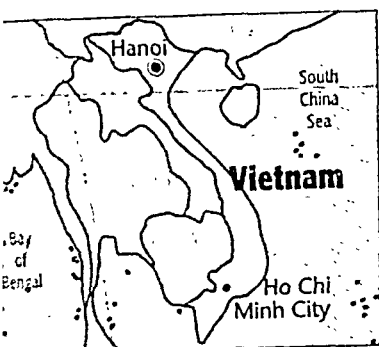
E-mail: embindia@eldishcom.vc

Website: <http://www.embindia.org>

194. Vietnam

(Socialist Republic of Vietnam) Cong Hoa Xa Hoi Chu Nghia Viet Nam

Capital: Hanoi; **Other Large Cities:** Ho Chi Minh City, Haiphong, Hue; **Area:** 329,566 sq. km; **Population:** 84,402,966; **Languages:** Vietnamese, French, English, Chinese; **Religions:** Buddhist, Hoa Hao, Cao Dai, Christian (predominantly Roman Catholic, Some Protestant), indigenous beliefs, Muslim; **Literacy:** 90.3%; **Life Expectancy:** 70.85; **Currency:** Dong (\$1=16983); **p.c.i:** \$ 2,800; **Date of Independence:** 2nd September, 1945.



Government Type: Communist State; **President:** Nguyen Minh Triet; **PM:** Nguyen Tan Dung

History: The Socialist Republic of Vietnam comprising former North and South Vietnam is a mountainous country in south east Asia. Running almost its entire length, is a mountain chain—the Annamite Chain. On one side of the mountain chain is the fertile Red River delta in the north and on the other side is the Mekong delta in the south. The two deltas form the rice bowl of the country.

The Vietnam War was fought mainly in South Vietnam from 1954 between US backed government forces and Viet Cong guerrillas supported by North Vietnam and Soviet armaments. US support of south began in 1961 and intensified from 1964. War formally concluded in 1973 but guerrilla activities continued in South. South Vietnam fell to communist forces in 1975 and gradual political reintegration followed. The unification of North and South Vietnam into the socialist Republic of Vietnam took place formally on July 2, 1976. The Northern capital, flag, anthem, emblem and currency were applied to the new state.

Economy: The country is primarily agricultural. Rice is the dominant crop and an export item. Other crops are rubber, sugarcane, coffee, maize and tea. Minerals include coal, tin, copper, chromium and phosphate. Industry: Cement, metallurgy, chemicals, paper, food processing and textiles.

After 3 million died defending their country, women outnumber men three to one in Vietnam.

Recent Events: Senior officials were investigated over the alleged embezzlement of millions of dollars of state money in the transport ministry. As part of an anticipated political shake-up, the prime minister, president and National Assembly chairman were replaced by younger leaders.

Mission in India: Embassy of the Socialist Republic of Vietnam, 17, Kautilya Marg, Chanakyapuri, New Delhi-110021. Tel: 23018059 (Visa Section), 23019818 (Ambassador's Office); Fax: 91-11-23017714.

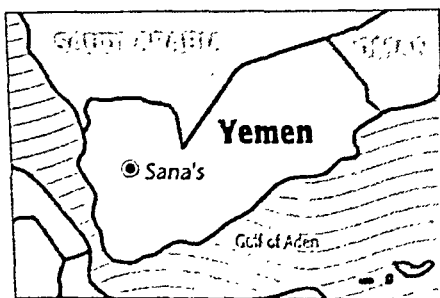
E-mail: sqdelhi@del3.vsnl.net.in

Indian Mission in Vietnam: Embassy of India, 58-60, Tran Hung Dao, Hanoi, Vietnam. Tel: 00-84-4-8244989; Fax: 00-84-4-8244998.

E-mail: india@netnam.org.vn

195. Yemen

(Republic of Yemen) Al Jumhuriyah al Yamaniyah



Capital: Sana'a; **Commercial (and winter) Capital:** Aden; **Area:** 531,000 sq km; **Population:** 21,456,188; **Languages:** Arabic; **Religions:** Muslim including Shafi'i (Sunni) and Zaidi (Shi'a), small numbers of Jew, Christian, and Hindu; **Literacy:** 50.2%; **Life Expectancy:** 62.12; **Currency:** Rial (\$1=196.86); **p.c.i.:** \$ 900; **Date of Independence:** 22nd May, 1990.

Government Type: Republic; **President:**

Col. Ali Abdullah Saleh PM: Abd al-Qadir Ba Jamal.

History: North and South Yemen merged in May 1990 into a United Republic of Yemen in the south west of the Arabian peninsula. North Yemen was established in 1962 while South Yemen (formerly Aden and the Protectorate of South Arabia) became independent in 1967.

Centuries ago Yemen was a rich land of exotic spices, frankincense and myrrh. The legendary Queen of Sheba ruled the kingdom then known as Happy Yemen. South Yemen became the Arab world's only Marxist nation after independence.

In 1994, regional clan-based rivalries led to full-scale civil war. On May 5, S. Yemen declared itself an independent state, breaking away from united Yemen. The 2-month war ended on July 7, when Aden, fell to the northern forces. Losses caused by the conflict is estimated at \$3 b.

Parliamentary elections were held in Apr. 1997.

Economy: The economy is chiefly based on oil and agriculture. The main agricultural products are coffee, dates, herbs, fruits, wheat, millet and maize. Cotton, coffee, hides and skins are exported. **Industries:** Food processing, mining and petroleum refining.

Recent Events: In March 2006, more than 600 followers of slain Shia cleric Hussein al-Houthi who were captured following a rebellion he led in 2004 were released under an amnesty.

Mission in India: Embassy of the Republic of Yemen, J-16, Hauz Khas, New Delhi-110 016, Tel: 26602482 (Ambassador's Office); Fax: 26602483

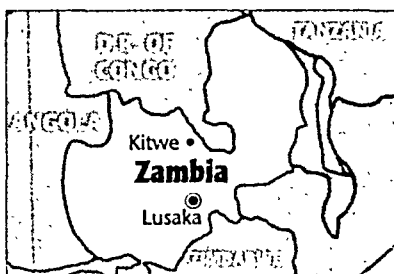
E-mail: yemenembnd@yahoo.com

Indian Mission in Yemen: Embassy of India, Building No. 12, Djibouti Street, Post Box No. 1154, Sana'a, Yemen. Tel: 00-967-1-508084, 508085; Fax: 00-967-1-508105

E-mail: indiaemb@y.net.ye

196. Zambia

(Republic of Zambia)



Capital: Lusaka; **Other Large Cities:** Kitwe, Chingola; **Area:** 752,620 sq km; **Population:** 11,502,010; **Languages:** Bantu and English; **Religions:** Christian-50-75%, Muslim and Hindu-24-49%, indigenous beliefs-1%; **Literacy:** 80.6%; **Life Expectancy:** 40.03; **Currency:** Kwacha (\$1=3,436); **p.c.i:** \$ 890; **Date of Independence:** 24th October, 1964.

Government Type: Republic; **President:** Levy Patrick Mwanawasa; **PM:**

Zambia, a landlocked republic in south central Africa, takes its name from the River Zambezi, one of its biggest rivers. Originally known as Northern Rhodesia, it is separated from Zimbabwe by the Zambezi river. Kariba Dam, one of the biggest man-made dams in the world, is on the Zambezi river where it makes the border between Zambia and Zimbabwe.

History: Zambia, under the administration of the South Africa Company from 1889 to 1924, became independent republic within the Commonwealth republic on October 24, 1964. In the 1980s, decline in copper prices hurt the economy. June 1990 witnessed severe violence caused by food riots. One-party rule came to an end with October 1991 elections.

Economy: Maize, tobacco, millet, cassava, groundnuts, cotton and sugar are produced. The country is rich in minerals including copper, zinc, cobalt, lead, uranium and manganese. Although copper mining dominates Zambia's economy, the country made a ma-

or shift to agricultural production, as a result of the crippling fluctuations of copper prices in the world market. President Chiluba reversed 27 years of command-economy socialism under Kaunda.

Over 500,000 children had been orphaned by the AIDS epidemic by the late 1990s.

Recent Events: In April 2006, president Mwanawasa suffered a minor stroke. He resumed "light duties" after some weeks and later declared himself fit to run for re-election towards the end of the year.

Mission in India: High Commission of the Republic of Zambia, C-79, Anand Niketan, New Delhi-110 021. Tel: 24101289, 24101292; Fax: 24101520.

E-mail: zambian@sify.com

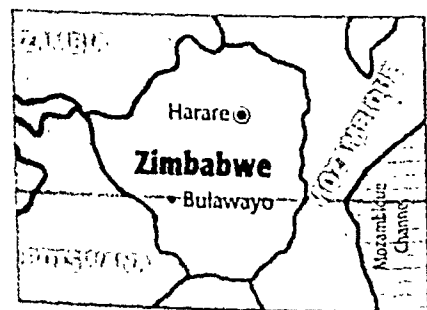
Indian Mission in Zambia: High Commission of India, 1, Pandit Nehru Road, P.O. Box 32111, Lusaka, Zambia. Tel: 00-260-1-253159, 253066; Fax: 00-260-1-254118.

E-mail: consular@india.zm

197. Zimbabwe

(Republic of Zimbabwe)

Capital: Harare; **Other Large Cities:** Bulawayo, Gweru; **Area:** 390,272 sq km; **Population:**



12,236,805; **Languages:** English, Shona and Ndebele; **Religions:** Syncretic (partly Christian, partly indigenous beliefs)-50%, Christian-25%, indigenous beliefs-24%, Muslim and others-1%; **Literacy:** 90.7%; **Life Expectancy:** 39.29; **Currency:** Dollar.(ZWD)

(\$1=101196); **p.c.i:** \$ 2,300; **Date of Independence:** 18th April, 1980

Government Type: Parliamentary Democracy; **Head of State & Govt (President):** Robert G. Mugabe.

History: A landlocked country in SC Africa, Zimbabwe (formerly Southern Rhodesia) has Zambia, Botswana, S. Africa and Mozambique as neighbours. Achieved independence on April 18, 1980, after a bitter struggle against the white minority government in power.

Economy: Zimbabwe is rich in minerals notably copper, nickel, gold, asbestos, chrome and coal. Its platinum deposits are the world's largest. Over 40 different types of metals and minerals are produced. About 40% of foreign exchange is derived from the export of metals, minerals and mineral related products. Industries include food processing, metals, textiles, furniture and engineering. Maize, groundnuts, cotton and tobacco are the chief crops, tobacco being the most important one. Zimbabwe is world's second largest exporter of flue-cured tobacco, after Brazil. Zimbabwe's agricultural performance has been hailed as the best in black Africa. Tourism is the fastest growing sector in the country. About one-fourth of the adult population has HIV/AIDS.

A referendum rejected the new draft constitution in early 2000. In April, the constitution was amended to give the Govt. the right to seize white-owned farms without compensation. Mugabe, armed with the new law, went ahead with his plans to confiscate 804 farms belonging to Whites, to be redistributed to ordinary Zimbabweans. In June, 2000 election, Mugabe's party scored a narrow win.

Recent Events: Ruling Zanu-PF party won an overwhelming majority of seats in a newly-created upper house of parliament, the Senate. The opposition MDC split over its leader's decision to boycott the poll. In May 2006, year-on-year inflation exceeded 1,000%.

Mission in India: High Commission of the Republic of Zimbabwe, F-63, Poorvi Marg,

Vasant Vihar, New Delhi-110057, Tel: 26140430, 26140431; Fax: 26154316.

E-mail: zimdelhi@vsnl.net

Indian Mission in Zimbabwe: High Commis-

sion of India, No. 12, Natal Road, Belgravia, Post Box 4620, Harare, Zimbabwe. Tel: 00-263-4-795955; Fax: 00-263-4-722324.

E-mail: hcihre@internet.co.zw

The United Nations

The name 'United Nations' was devised by United States President Franklin D. Roosevelt and was first used in the Declaration by United Nations of 1 Jan. 1942, during the Second World War, when representatives of 26 nations pledged their Governments to continue fighting together against the Axis Powers.

The United Nations is the hope and conscience of the world, more especially of the smaller nations among its 191 members. It is an association of states which have pledged themselves to maintain international peace and security and co-operate in solving international political, economic, social, cultural and humanitarian problems towards achieving this end.

The United Nations Charter, the constituting instrument of the UN, was drawn up by the representatives of 50 countries at the United Nations Conference on International Organisation, which met in San Francisco from 25 April to 26 June 1945. Those delegates deliberated on the basis of proposals worked out by the representatives of China, the Soviet Union, the United Kingdom and the United States at Dumbarton Oaks (Washington, DC) from 21 Aug. to 28 Sept. 1944. The Charter was signed on 26 June 1945 by the representatives of the 50 countries. Poland, which was not represented at the Conference, signed it later and became one of the original 51 Member States.

The United Nations officially came into existence on 24 Oct. 1945, with the deposit of the requisite number of ratifications of the Charter with the US Department of State. United Nations Day is celebrated on 24 Oct. each year.

New Member States are admitted by the General Assembly on the recommendation of the Security Council. Tuvalu was admitted in Sept. 2000 as the 189th member. East Timor was admitted as a member of the UN in September, 2002. Switzerland joined the world organisation in the same month. Montenegro became a UN member on 28 June, 2006.

In 1971 Communist China was admitted as the representative of all China. Red China thus became a permanent member of the Security Council. Taiwan lost its primary membership of the UN. Vatican is a permanent observer.

Official languages of the UN are: Arabic, Chinese, English, French, Russian and Spanish.

Flag of the UN: On the flag is the UN emblem in white centred on a light blue ground.

The UN has a post office originating its own stamps. Some 52,100 people work in the UN system.

The Secretary General Kofi Annan and the UN were jointly given the Nobel Prize for Peace in 2001.

The Year 2005 was proclaimed the International Year of physics by the UN.

Headquarters: First Avenue, UN Plaza, New York City, N.Y. 10017, USA.

Principal Organs of the UN are: General Assembly, Secretariat, Security Council, Trusteeship Council, Economic and Social Council and International Court of Justice.

General Assembly

The Assembly consists of the representatives of all the member states. Each state has one vote, but may send 5 representatives. The General Assembly meets at least once in a year. It elects its own President and Vice Presidents every year.

Security Council

Security Council consists of 15 members, each of which has one vote. There are five permanent and 10 non-permanent members elected for a 2-year term by a two-thirds majority of the General Assembly. The permanent members have the power to veto any move. Retiring members are not eligible for immediate re-election.

The Presidency of the Security Council is held for one month in rotation by the member states in the English alphabetical order of their names.

Permanent Members: China, France, Russia, UK, USA. **Non-permanent Members:** Congo, Ghana, Peru, Qatar, Slovakia (until Dec. 31, 2007), Argentina, Denmark, Greece, Japan, United Republic of Tanzania (until Dec. 31, 2006).

The expansion of the Security Council to include 'new powers' such as India, Germany and Japan as permanent members has been suggested by various fora.

Economic and Social Council

The Economic and Social Council (54 members) is responsible under the General Assembly for carrying out the functions of the United Nations with regard to international economic, social, cultural, educational, health and related matters. The Council's Regional Economic Commissions: ECE (Economic Commission for Europe, Geneva); ESCAP (Economic and Social Commission for Asia

and the Pacific, Bangkok); ECLAC (Economic Commission for Latin America and the Caribbean, Santiago, Chile); ECA (Economic Commission for Africa, Addis Ababa). ESCWA (Economic Commission for Western Asia, Amman, Jordan).

Trusteeship Council

The Charter provides for an international trusteeship system to safeguard the interests of the inhabitants of territories which are not yet fully self-governing and which may be placed thereunder by individual trusteeship agreements. These are called trust territories.

All of the original 11 trust territories have become independent or joined independent countries.

Members: China, France, Russia, UK, USA.

International Court

The International Court of Justice was created by an international treaty, the Statute of the Court, which forms an integral part of the United Nations Charter. All members of the United Nations are ipso facto parties to the Statute of the Court. There are 15 judges. Headquarters: The Peace Palace, 2517 KJ The Hague, Netherlands.

The 15 judges are elected for 9-year terms by the General Assembly and the Security Council. Retiring judges are eligible for re-election. The court remains permanently in session, except during vacations. All questions are decided by majority.

Website: <http://www.icj-cij.org>

President: Shi Jiuyong (China)

Registrar: Philippe Couvreur (Belgium)

The Court has its seat at The Hague, but may sit elsewhere whenever it considers this desirable. The expenses of the Court are borne by the UN.

Languages: French and English.

The Secretariat

The Secretariat is composed of the Secretary-General, who is the chief administrative

officer of the organisation and an international staff appointed by him under regulations established by the General Assembly. However, the Secretary General, the High Commissioner for Refugees and the Managing Director of the Fund are appointed by the General Assembly. HQ: United Nations Plaza, New York, NY 10017, USA.

Website: <http://www.un.org>

Secretary-General: Kofi Annan (Ghana) was appointed on 1st January, 1997 for a five-year term. He has been re-elected for a second term.

On Jan. 12, 1998, Louise Frechette (Canada) was appointed Deputy Secretary-General.

In addition to the 18 independent specialised agencies, there are some 14 major United Nations programmes and funds devoted to achieving economic and social progress in the developing countries.

United Nations Development Programme

United Nations Development Programme (UNDP), is the world's largest agency for multilateral, technical and pre-investment co-operation. It is the funding source for most of the technical assistance provided by the United Nations system.

HQ: New York

Administrator: Mark Malloch Brown (UK)

United Nations Children's Fund

United Nations Children's Fund (UNICEF), established in 1946 as United Nations International Children's Emergency Fund to deliver post-war relief to children, now concentrates its assistance on development activities aimed at improving the quality of life for children and mothers in developing countries.

HQ: New York

Executive Director: Ms. Ann M. Veneman (USA)

The UN Fund for Population Activities

The UN Fund for Population Activities

(UNFPA), established in 1969, carries out programmes in over 130 countries and territories. The Fund's aims are to build capacity to respond to needs in population and family planning.

Executive Director: Ms. Thoraya A Obaid (Saudi Arabia).

UN Environment Programme (UNEP)

Established in 1972, it works to encourage sustainable development through environmental practices.

Executive Director: Achim Steiner (many).

Relief Agencies

Among the organisations involved in relief activities are the Office of the UN Disaster Co-ordinator (UNDRO), the Office of the High Commissioner for Refugees (UNHCR) and the UN Relief and Works Agency for Palestine Refugees in the Near East (UNRWA).

Commissioner-General: Giorgio Giacomini (Italy)

United Nations High Commissioner for Refugees

United Nations High Commissioner for Refugees (UNHCR) was established by the General Assembly with effect from 1 Jan. 1951.

For its work on behalf of refugees all over the world, UNHCR was awarded the Peace Prize in 1955 and again in 1981.

HQ: Palais de Nations, 1211, Geneva, Switzerland.

High Commissioner: Antonio Guterres (Portugal)

High Commissioner for Human Rights

The post was established in 1993. The mission has 53 members.

High Commissioner: Louise Arbour (Canada)

Specialised Agencies

International Atomic Energy Agency
International Atomic Energy Agency (IAEA)

ie into existence on 29 July 1957. Mem-States: 138.

HQ: Vienna International Centre, P.O. Box 1, A-1400 Vienna, Austria.

Website: <http://www.iaea.or.at/world-atoms>

Director-General: Mohamed El Baradei (Egypt).

United Nations Industrial Development Organisation

United Nations Industrial Development Organisation (UNIDO), provides developing and underdeveloped countries with advice on all aspects of industrial policy. Converted into specialised agency of UN in 1985.

HQ: Vienna International Centre, P.O. Box 100, A-1400 Vienna, Austria.

Website: <http://www.unido.org>

Director-General: Carlos Alfredo Magarinos

Food and Agriculture Organisation (FAO)

The UN Conference on Food and Agriculture in May 1943, at Hot Springs, Virginia, set up an Interim Commission in Washington in July 1943 to plan the FAO, which came into being on 16th October 1945. Sponsors the World Food Programme.

HQ: Viale delle Terme di Caracalla, 00100 Rome, Italy.

Website: <http://www.fao.org>

Director-General: Jacques Diouf (Senegal)

United Nations Educational, Scientific and Cultural Organisation (UNESCO)

A Conference for the establishment of an Educational, Scientific and Cultural Organisation of the United Nations was convened by the Government of the UK in association with the Government of France, and met in London, 1 to 16 Nov. 1945. UNESCO came into being on 4 Nov. 1946.

HQ: UNESCO House, 7 Place de Fontenoy, 75352 Paris 07SP, France.

Website: <http://www.unesco.org>

UN Secretaries General

Year	Name	Nation
1946	Trygve Lie	Norway
1953	Dag Hammarskjöld	Sweden
1961	U Thant	Burma
1972	Kurt Waldheim	Austria
1982	Javier Peres De Cuellar	Peru
1992	Dr. Boutros Boutros Ghali	Egypt
1997-	Kofi Annan	Ghana

Director General: Koichiro Matsuura (Japan).

World Health Organisation (WHO)

An International Conference, convened by the UN Economic and Social Council, to consider a single health organisation resulted in the adoption on 22 July 1946 of the constitution of the WHO.

HQ: Avenue Appia 20, CH-1211 Geneva 27, Switzerland

Rgl. Offices: Alexandria, Brazzaville, Copenhagen, Manila, New Delhi, Washington.

Website: <http://www.who.int>

Director-General: Lee Jong-Wook (S. Korea)

International Monetary Fund (IMF)

The International Monetary Fund was established on 27 Dec. 1945 as an independent international organisation and began operations on 1 March 1947. The IMF aims to preserve economic stability and to tackle or ideally prevent - financial crises. Over time, its focus has switched to the developing world. HQ: 700 19th St. NW, Washington, D.C., 20431, USA. Offices in Paris and Geneva.

Website: <http://www.imf.org>

Managing Director: Rodrigo de Rato (Spain)

International Bank for Reconstruction and Development (IBRD)

Conceived at the Bretton Woods Conference, July 1944, the 'World Bank' began operations in June 1946.

HQ: 1818 H. St. NW, Washington, D.C., 20433, USA

Website: <http://www.worldbank.org>

President: Paul Wolfowitz (USA)

International Development Association (IDA)

A lending agency which came into existence on 24 Sept., 1960. Administered by the World Bank, IDA is open to all members of the Bank.

International Finance Corporation

International Finance Corporation (IFC) is an affiliate of the World Bank. Established in July 1956.

HQ: 1850 Ist., NW, Washington, D.C., 20433, USA. Website: <http://www.ifc.org>

President: Paul Wolfowitz (USA)

International Civil Aviation Organisation

International Civil Aviation Organisation (ICAO) formed in Nov-Dec. 1944.

HQ: 999, University Street, Montreal, PQ, Canada H3C 5H7.

Website: <http://www.icao.org>

Secretary-General: Dr. Taieb Cherif (Algeria)

Universal Postal Union

Universal Postal Union (UPU) was established on 1 July, 1875, when the Universal Postal Convention adopted by the Postal Congress of Berne on 9 Oct. 1874 came into force.

HQ: Weltpoststrasse 4, 3000 Berne 15, Switzerland.

Website: <http://www.upu.int>

Director-General: Edouard Dayan (France)

International Telecommunication Union (ITU)

The International Telegraph Union, founded

in Paris in 1865, and the International Radiotelegraph Union, founded in Berlin in 1906, were merged by the Madrid Convention of 1932 to form the ITU.

HQ: Place des Nations, CH-1211 Geneva-20, Switzerland. Website: <http://www.itu.int>

Secretary-General: Yoshio Utsumi (Japan)

International Labour Organisation

International Labour Organisation (ILO) established in 1919 as an autonomous part of the League of Nations, is an intergovernmental agency with a tripartite structure, in which representatives of governments, employers and workers participate. In 1969 the organisation won the Nobel Peace Prize. Has 150 members.

HQ: International Labour Office, CH-1211, Geneva 22, Switzerland.

Website: <http://www.ilo.org>

Director-General: Juan Somavia (Chile).

World Meteorological Organisation (WMO)

Conference of Directors of the International Meteorological Organisation (set up in 1873), meeting in Washington in 1947, adopted a convention creating the WMO.

HQ: Case Postale 2300, CH-1211 Geneva-2, Switzerland.

Secretary-General: Michel Jarraud (France)

The International Maritime Organisation

The International Maritime Organisation (IMO) was established as a specialised agency of the UN by the UN Maritime Conference at Geneva in Feb./Mar. 1948.

HQ: 4 Albert Embankment, London SE1 7SR, UK. Website: <http://www.imo.org>

Secretary-General: Efthimios Mitropoulos (Greece)

World Trade Organisation

The World Trade Organisation (WTO) is

Member States of the UN (Nation/Year of admission)

Afghanistan	1946	65. Germany	1973	129. Nigeria	1960
Albania	1955	66. Ghana	1957	130. Norway	1945
Algeria	1962	67. Greece	1945	131. Oman	1971
Andorra	1993	68. Grenada	1974	132. Pakistan	1947
Angola	1976	69. Guatemala	1945	133. Palau	1994
Antigua and Barbuda	1981	70. Guinea	1958	134. Panama	1945
Argentina	1945	71. Guinea-Bissau	1974	135. Papua New Guinea	1975
Armenia	1992	72. Guyana	1966	136. Paraguay	1945
Australia	1945	73. Haiti	1945	137. Peru	1945
Austria	1955	74. Honduras	1945	138. Philippines	1945
Azerbaijan	1992	75. Hungary	1955	139. Poland	1945
Bahamas	1973	76. Iceland	1946	140. Portugal	1955
Bahrain	1971	77. India	1945	141. Qatar	1971
Bangladesh	1974	78. Indonesia	1950	142. Romania	1955
Barbados	1966	79. Iran	1945	143. Russia	1945
Belarus	1945	80. Iraq	1945	144. Rwanda	1962
Belgium	1945	81. Ireland, Rep. of	1955	145. St. Kitts and Nevis	1983
Belize	1981	82. Israel	1949	146. St. Lucia	1979
Benin	1960	83. Italy	1955	147. St. Vincent and Grenadines	1980
Bhutan	1971	84. Jamaica	1962	148. Samoa	1976
Bolivia	1945	85. Japan	1956	149. San Marino	1992
Bosnia-Herzegovina	1992	86. Jordan	1955	150. Sao Tome & Principe	1975
Botswana	1966	87. Kazakhstan	1992	151. Saudi Arabia	1945
Brazil	1945	88. Kenya	1963	152. Senegal	1960
Brunei	1984	89. Kiribati	1999	153. Seychelles	1976
Bulgaria	1955	90. Korea (North)	1991	154. Sierra Leone	1961
Burkina Faso	1960	91. Korea (South)	1991	155. Singapore	1965
Burundi	1962	92. Kuwait	1963	156. Slovakia	1993
Cambodia	1955	93. Kyrgyzstan	1992	157. Slovenia	1992
Cameroon	1960	94. Laos	1955	158. Solomon Islands	1978
Canada	1945	95. Latvia	1991	159. Somalia	1960
Cape Verde	1975	96. Lebanon	1945	160. South Africa	1945
Central African Republic	1960	97. Lesotho	1966	161. Spain	1955
Chad	1960	98. Liberia	1945	162. Sri Lanka	1955
Chile	1945	99. Libya	1955	163. Sudan	1956
China	1945	100. Liechtenstein	1990	164. Suriname	1975
Colombia	1945	101. Lithuania	1991	165. Swaziland	1968
Comoros	1975	102. Luxembourg	1945	166. Sweden	1946
Congo, Rep. of the	1960	103. Macedonia	1993	167. Switzerland	2002
Congo, D.R. of the	1960	104. Madagascar	1960	168. Syria	1945
Costa Rica	1945	105. Malawi	1964	169. Tajikistan	1992
Cote d'Ivoire	1960	106. Malaysia	1957	170. Tanzania	1961
Croatia	1992	107. Maldives	1965	171. Thailand	1946
Cuba	1945	108. Mali	1960	172. Togo	1960
Cyprus	1960	109. Malta	1964	173. Tonga	1999
Czech Republic	1993	110. Marshall Islands	1991	174. Trinidad and Tobago	1962
Denmark	1945	111. Mauritania	1961	175. Tunisia	1956
Djibouti	1977	112. Mauritius	1968	176. Turkey	1945
Dominica	1978	113. Mexico	1945	177. Turkmenistan	1992
Dominican Republic	1945	114. Micronesia	1991	178. Tuvalu	2000
East Timor	2002	115. Moldova	1992	179. Uganda	1962
Ecuador	1945	116. Monaco	1993	180. Ukraine	1945
Egypt	1945	117. Mongolia	1961	181. United Arab Emirates	1971
El Salvador	1945	118. Montenegro	2006	182. UK	1945
Equatorial Guinea	1968	119. Morocco	1956	183. USA	1945
Eritrea	1993	120. Mozambique	1975	184. Uruguay	1945
Estonia	1991	121. Myanmar	1948	185. Uzbekistan	1992
Ethiopia	1945	122. Namibia	1990	186. Vanuatu	1981
Fiji	1970	123. Nauru	1999	187. Venezuela	1945
Finland	1955	124. Nepal	1955	188. Vietnam	1977
France	1945	125. Netherlands	1945	189. Yemen	1947
Gabon	1960	126. New Zealand	1945	190. Yugoslavia	1945
Gambia	1965	127. Nicaragua	1945	191. Zambia	1964
Georgia	1992	128. Niger	1960	192. Zimbabwe	1980

an international body whose purpose is to promote free trade by persuading countries to abolish import tariffs and other barriers. As such, it has become closely associated with globalisation.

Based in Geneva, the WTO was set up in 1995, replacing another international organisation known as the General Agreement on Tariffs and Trade (GATT). The WTO has a much broader scope than GATT regulated trade in merchandise goods, the WTO also covers trade in services, such as telecommunications and banking and other issues such as intellectual property rights.

HQ : Centre William Rappard, 154 rue de Lausanne, CH-1211 Geneva 21, Switzerland.

Website: <http://www.wto.org>

Director General: Pascal Lamy (France)

World Intellectual Property Organisation (WIPO)

The Convention establishing WIPO was signed at Stockholm in 1967 by 51 countries, and came into force in April 1970. In Dec. 1974 WIPO became a specialised agency of the UN.

HQ: 34, Chemin des Colombettes, 1211 Geneva 20, Switzerland.

Website: <http://www.wipo.int>

Director-General: Dr. Kamil Idris (The Sudan).

International Fund for Agricultural Development (IFAD)

The agency began its operations in Dec 1977.

HQ: 107 Via del Serafico, Rome 00142, Italy. Website: <http://www.ifad.org>

President: Lennart Bage (Sweden).

Reforming the UN

T.P.Sreenivasan

Formerly India's Ambassador & Dy. Permanent Representative to UN

For a human institution with universal reach in a changing world, the United Nations has remained surprisingly unchanged in form for sixty years and its charter has remained largely unaltered. The complex procedure for amending the charter has deterred frequent changes and its proven resilience in the face of grave challenges has enabled the UN to meet the needs of the vastly expanded membership and the greatly transformed agenda without fundamental change. The resolutions, declarations and treaties, adopted over the years, have enriched international law. Many important intergovernmental and secretariat bodies have been created under the principal organs of the

UN. As a result, the UN has remained dynamic, credible and modern. But the quest for reform continues, if only to get the organization to acknowledge the evolution in international law and to reflect the realities of the world situation.

The reform effort, which began soon after the UN Charter came into force, can be broadly grouped into two clusters; the first relating to structural reforms to accommodate the physical changes in the world, like the exponential increase in the number of members and the changes in the political map of the world and the second relating to the functioning of the various organs of the UN. But restructuring in terms of amendments to the Charter has not

one beyond the barest minimum. So far, only three amendments have been made to the charter. In 1965, the UN Security Council was expanded from 11 to 15. In 1965, the Economic and Social Council (ECOSOC) was expanded from eighteen to twenty-seven. The COSOC was again expanded from 27 to 54 in 1973. Elementary things like changing the names of the permanent members from the Republic of China to the People's Republic of China and the Union of Soviet Socialist Republics to the Russian Federation have not been done yet and the charter still has the "enemy clause" to characterize the losers of the second world war, who are now highly respected members of the organization. In a way, it is a tribute to the framers of the charter that the UN has not collapsed under the weight of the monumental changes in the world since 1945.

Democracy Deficit

The "democracy deficit" of the UN, which has been consciously embedded in the UN charter, has been the most controversial element. In an organization which proclaims sovereign equality among its members, some are "more equal" than others. One nation one vote principle applies only to the General Assembly. The Security Council, the repository of the power to make war and peace, has remained in the grip of the veto-wielding permanent members, without whose support, no decisions can be taken. A further dimension was added to the powers of the permanent members when it came to be recognized that even an abstention by a permanent member is sufficient to take decisions. Once the agreement among the permanent members, with abstention from China, became a possibility after the cold war, it became clear that issues of fundamental importance to the developing world would be settled by the developed world. The demand for the expansion of the Security Council assumed importance in this context.

India had initiated a move in 1979 to expand the non-permanent membership of the Security Council on the basis that the ratio between the general membership and the Security Council members should be preserved at 1945 level. Although the proposal had the support of a majority of the member states, no vote was taken on it as the permanent members made it clear that they would not support it. But after the cold war, some of the permanent members themselves favoured the induction of Japan and Germany as permanent members. When the pressure mounted for including developing countries from Asia, Africa and Latin America as permanent members, the idea of an expansion was virtually abandoned.

High Level Panel

The reform of the Security Council, together with other ideas of reform, surfaced again when the Secretary General constituted a High Level Panel in 2004 to examine the whole gamut of issues arising from terrorism and other threats to international peace and security. The panel was unable to make a single recommendation on the expansion of the Security Council. Instead, it made two recommendations, which was like making no recommendation at all. As the first option, it suggested an addition of six new permanent members, two each from Africa and Asia and one each from Europe and Americas and three non-permanent members. In the second option, it proposed no additional permanent seats, but eight seats with four-year renewable terms, a kind of a rotational system of semi-permanent members. Under this option, there will also be one additional non-permanent seat.

The Secretary General modified some of the Panel's recommendations when he put them forward to the General Assembly in a report, entitled "In Larger Freedom", but presented both the alternatives for reform of the Security Council to the sixtieth anniversary UN summit. He stressed that the summit should choose one of

re two options or devise a third method by which the Council could be reformed to bring it closer to the realities of the political situation. He suggested a decision by consensus, but added that reform should go forward by voting, if necessary. The reform package presented by the Secretary General did not make much headway and there was no question of a consensus on the expansion of the Security Council. The permanent members, particularly the United States, did not want an expansion of the Council to the extent suggested.

In an ill-advised move, four of the candidates, India, Brazil, Germany and Japan (G-4) presented a resolution on expansion on the basis of the first alternative of the Panel report in the expectation that it would receive a two third majority in the General Assembly. The plan was to present a fait accompli to the permanent members to force them to ratify the changes. The UK and France supported the move, but the US, Russia and China opposed it in different degrees and ensured that the resolution was not even put to a vote. The African group refused to support the G-4 resolution on the ground that the resolution did not seek veto for the new permanent members. Japan also dissociated from the G-4 approach when it realized that it had a better chance of becoming a permanent member on its own rather than in the company of G-4. In actual fact, the Africans were not able to agree on two candidates from Africa. Moreover, they succumbed to the pressure from the US not to join the G-4 exercise. The US position is that a limited expansion is possible, but the immediate priority is to bring in financial and management reform and not reform of the Security Council. Most of the developing countries, however, are not ready to bring in the kind of reform that the US has presented. The expansion proposal has once again receded into the background.

The discussion on the functioning of the Security Council in a Working Group since 1992 has brought about some marginal im-

provements in the accountability of the Council to the General Assembly. Methods were devised, without any changes in the charter or the Rules of Procedure, to share information with the general membership of the UN. The number of open meetings were increased to seek the views of the non-members of the Security Council. Troop contributors were brought into a consultation mechanism so that the Council could take informed decisions on peacekeeping operations. The Presidents of the Council began briefing the general membership on the Council's activities. These were not changes in substance as the briefings did not cover the discussions in the Council's informal consultations and they did not reveal anything that was not known to the membership. But the acknowledgement of the accountability of the Council to the General Assembly itself was a major advance.

Agenda for Peace

Soon after the end of the cold war, the Secretary General, Boutros Ghali, put forward a set of proposals for reform in his "An Agenda for Peace" in 1992. It was essentially a codification of the changes that had taken place over the years. But some of the elements in his proposals, such as dilution of sovereignty, setting up of a standing force for the UN and strengthening of the post of the Secretary General himself proved contentious and only marginal reform in peacekeeping operations was accomplished. His proposals in "An Agenda for Development" were even less successful as the developed countries were not willing to take on additional financial responsibilities.

The reform proposals advanced by the Secretary General in 2005 went beyond the Security Council. These included reform of the General Assembly itself in terms of rationalizing its work and agenda, replacement of the Human Rights Commission by a smaller Human Rights Council with greater authority, setting up of a Peacebuilding Commission and man-

Secretary-General: Ong Keng Yong
(Singapore)

Caribbean Community and Common Market (CARICOM)

Established in 1973.

HQ: Bank of Guyana Building, PO Box 10827, Georgetown (Guyana).

Website: <http://www.caricom.org>

Secretary-General: Edwin W. Carrington
(Trinidad and Tobago)

Commonwealth of Independent States

Commonwealth of Independent States (CIS), created Dec. 1991 upon the disbanding of the Soviet Union. It is made up of 12 of the 15 former Soviet constituent republics. Members in 1995 were Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The capital of the commonwealth is Minsk, Belarus.

HQ: 220000 Minsk, Kirava 17, Belarus

Website: <http://www.cis.minsk.by>

Executive Secretary: Yurii Yarov.

The Commonwealth is an organisation of nations and dependencies that were once part of the former British empire. There are 54 members. The British monarch is the symbolic head of the Commonwealth.

Commonwealth Heads of Government Meet

Formerly known as the British Commonwealth of Nations, the Commonwealth is a loose association of former British colonies, dependencies and other territories - and Mozambique, which has no historical ties to Britain.

The Commonwealth has no constitution or charter, but the heads of government of its member states hold Commonwealth Heads of Government Meetings (CHOGM) every two years to discuss issues of common interest.

Founded: 1931

Members: 53 states

HQ (Secretariat): Marlborough House, Pall Mall, London. SW1Y 5HX, UK.

Website: <http://www.thecommonwealth.org>

Secretary-General: Donald C McKinnon
(New Zealand).

European Union Known as the European Community

European Union was known as the European Community (EC) until 1994. The name covers 3 organisations with common membership: the European Economic Community (Common Market), European Coal and Steel Community, and European Atomic Energy Community (Euratom). The European Union covers a large part of the continent of Europe. In 2004, its membership increased from 15 to 25. The ten new countries which joined the EU in 2004 are: Cyprus, the Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia and Slovenia. When two more countries join in 2007, the EU will have a population of nearly half a billion.

HQ: 200 rue de la Loi/Wetstraat, B-1049 Brussels, Belgium

President, European Commission: Romano Prodi (Italy).

Website: <http://www.europa.eu.int>

Sec. Gen.: David O'Sullivan (Ireland)

European Economic Area

European Economic Area (EEA) came into existence from Jan. 1, 1994 as a preliminary step of a proposed merger of EFTA and EC over the coming decade.

European Space Research Organisation

European Space Research Organisation (ESRO) was formally established in 1964 to promote collaboration among European States in space research and technology exclusively for peaceful purposes. The members are Belgium, Denmark, France,

t Germany, Italy, the Netherlands, n, Sweden, Switzerland and UK. Austria, Ireland and Norway participate as observers.

Q: Paris.

French Community

The French Community offers to the French overseas territories, which manifest their will to adhere to it, new institutions based on the common idea of liberty, equality and fraternity and conceived with a view to their democratic evolution.

Independent members of the Community: French Republic, Central African Republic, Republic of Congo, Gabon, Senegal, Madagascar, & Djibouti.

Group of Eight

With no headquarters, budget or permanent staff, the Group of Eight is an informal but exclusive body whose members set out to tackle global challenges through discussion and action. The G8 comprises seven of the world's leading industrialised nations, and Russia.

Founded: 1975, Rambouillet, France

Original Members: France, Germany, Italy, Japan, UK, US.

Later Members: Canada (joined at 1976 summit, San Juan, Puerto Rico), Russia (joined 1998 summit, Birmingham, UK)

Gulf Co-operation Council (GCC)

The Gulf Co-operation council, or GCC, is a loose political and economic alliance made up of six Gulf states. It aims to boost economic cooperation between members and, through collective security, to guard against any threat from neighbouring states and from Islamic terrorism.

The GCC was formed in May 1981 against the backdrop of the Islamic revolution in Iran and the Iraq-Iran war. Its members - Saudi Arabia, Kuwait, the United Arab Emirates, Oman, Qatar and Bahrain - share similar po-

litical systems and a common social and cultural outlook. They are autocratic monarchies or sheikhdoms, with limited or non-existent political participation.

HQ: Riyadh (Saudi Arabia).

Sec. Gen: Abdul-Rahman Al-Atiyyah

The International Air Transport Association

The International Air Transport Association (IATA) was founded in 1945 to promote safe, regular and economical air transport and to provide a forum for collaboration. Members are international and domestic airlines.

Main offices: IATA Centre, Route de l'Aéroport 33, PO Box 416, CH-1215 Geneva, Switzerland; 800 Place Victoria, PO Box 113, Montreal, Quebec, Canada H4Z 1M1; 77 Robinson Road, #05-00 SIA Building, Singapore 068896.

Website: <http://www.iata.org>

Director-General: Giovanni Bisignani

INTERPOL

Interpol is the world's largest international police organisation, with 184 member countries. Created in 1923, it facilitates cross-border police co-operation, and supports and assists all organisations, authorities and services whose mission is to prevent or combat international crime.

HQ: Quai Charles de Gaulle, 69006 Lyon, France.

Website: <http://www.interpol.int>

Secretary-General: Ronald K. Noble

North Atlantic Treaty Organisation (NATO)

In 1949, the foreign ministers of Belgium, France, Luxembourg, the Netherlands, UK, Canada, Denmark, Iceland, Italy, Norway, Portugal and USA met in Washington and signed the North Atlantic Treaty. Greece and Turkey (1952), the Federal Republic of Germany (1955) Spain (1982).

The Czech Republic, Hungary and Poland

Comoros, Djibouti, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Morocco, Oman, Palestine L.O., Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, UAE, and Republic of Yemen.

HQ: Al Tahrir Square, Cairo, Egypt.

The Secretariat has its seat in Cairo.

Secretary General: Amre Moussa (Egypt).

Organisation of Petroleum Exporting Countries

Organisation of Petroleum Exporting Countries (OPEC) created in Sept., 1960, OPEC attempts to set world oil prices by controlling oil production. It also pursues members' interests in trade and development dealings with industrialised oil-consuming nations.

Members (1998): Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela.

HQ: Obere Donaustrasse 93, A-1020 Vienna, Austria.

Website: <http://www.opec.org>

Secretary-General: Ahmad Fahad Al-Ahmad Al Sabah (Kuwait)

Non-Aligned Movement

The Non-Aligned Movement (NAM) is made up of 114 developing countries and aims to represent the political, economic and cultural interests of the developing world. The principles of non-alignment were defined in the Bandung (Indonesia) Declaration of 1955 and reiterated in the Brioni (Yugoslavia) Declaration of 1956 by Jawaharlal Nehru, Josip Broz Tito, and Gamel Abdil Nasser. The first Non-aligned Conference was held at Belgrade in 1961 in which 25 countries participated. The basic thrust of the movement is in favour of peace, disarmament, development, independence, eradication of poverty and illiteracy.

Chairman: Abdullah Ahmad Badawi (Malaysia).

South Asian Association for Regional Co-operation

South Asian Association for Regional Co-operation (SAARC), comprises India, Maldives, Pakistan, Bangladesh, Sri Lanka, Bhutan and Nepal. It was launched following the Dacca Summit in early December 1985.

Members of ASEAN, EU, NATO & OPEC

The Association of South East Asian Nations (ASEAN)

Member Countries (10)

Brunei Darussalam, Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam.

European Union (EU)

Member Countries

(25): Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany,

Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, The Netherlands, United Kingdom.

North Atlantic Treaty Organisation (NATO)

Member Countries (26)

Belgium, Canada, Denmark, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway,

Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Turkey, United Kingdom, United States.

Organisation of Petroleum Exporting Countries (OPEC)

Member Countries

(13): Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, Sudan, United Arab Emirates, Venezuela.

HQ: POBOX:4222, Kathmandu, Nepal.

Secretary-General: Chenkyab Dorji
(Bhutan)

Non-governmental Organisations

Amnesty International

A world-wide human rights organisation, established on May 28, 1961 with a newspaper appeal by the British lawyer Peter Berenson. Now it has more than 11,00,000 members in more than 150 countries with 6000 local groups in 70 countries in Africa, the Americas, Asia, Europe and the Middle East. It won the Nobel Prize for Peace in 1977.

International Secretariat: 99-119 Rosebery Avenue, London, EC1R 3RE, UK

Website: <http://www.amnesty.org>

Secretary General: Ms. Irene Zubaida Khan

Red Cross

International Society for relief of suffering in time of war or disaster. International Committee of Red Cross was founded (1863) on advocacy of J.H. Dunant (1828-1910). Delegates from 14 countries adopted Geneva Convention (1864), providing for neutrality of personnel treating wounded etc. Over 100 national Red Cross societies now exist. Awarded Nobel Peace Prize (1917, 1944, 1963).

HQ: 19 avenue de la Paix, CH-1202 Geneva, Switzerland

Website: <http://www.icrc.org>

President: Jakob Kellenberger

Scouts and Guides

Scouting is a worldwide organised movement for young people started by an Englishman, Lieutenant General Sir Robert S.S. Baden-Powell (1857-1941) in 1907. He gave boys out-door skills which he had illustrated well in his book explaining scouting, tracking and map-making skills. The movement's goals include encouraging good character, loyalty to God and country, service to other people and physical and mental fitness. "Be Prepared" is the slogan. The movement had about 13 million members in 115 nations in 1982. The World Scouts Bureau is in Geneva, Switzerland.

A similar movement for girls - the Girl Guide Movement - was founded by Baden-Powell and his sister Agnes in 1910.

The World Council of Churches

The World Council of Churches (WCC) was formally constituted on 23rd Aug. 1948, at Amsterdam, by an assembly representing 147 Churches from 44 countries. By 1989 the member Churches numbered over 330, from more than 100 countries.

HQ: PO Box 2100, 150 route de Ferney, 1211 Geneva 2, Switzerland.

Website: <http://www.wcc-coe.org>

General Secretary: Rev. Dr. Samuel Kobia (Germany).

World Religions

Religions evolved as a set of beliefs concerning the cause, nature and purpose of the universe and grew as an

organised system of beliefs that bound people to become a close-knit society.

Religion	World Population
Christians	2,069,883,000
Roman Catholics	1,092,853,000
Protestants	364,530,000
Orthodox	217,030,000
Anglicans	79,988,000
Muslims	1,254,222,000
Hindus	837,262,000
Chinese folk religionists	398,106,300
Buddhists	372,974,000
Ethnic religionists	238,096,000

New-Religionists	105,106,100
Sikhs	24,295,200
Jews	14,551,000
Spiritists	12,732,600
Baha'is	7,503,000
Confucians	6,425,300
Jains	4,413,700
Shintoists	2,680,300
Zoroastrians	2,733,900
Other religionists	1,118,000
Non-religious	784,269,000
Atheists	148,660,000

World Languages

There are thousands of languages in the world, but most of them have few speakers compared with the major tongues. Some experts predict that between 50 and 90 percent of the world's languages will become extinct this century. Languages need at least 100,000 speakers to survive.

Major Languages

Language	Speakers (in Million)	* Principal Areas
Chinese, Mandarin	873	China, Taiwan
Spanish	322	Spain, Latin America
English	309	UK, USA, Canada, Ireland, Australia, New Zealand
Hindi	180	North India
Portuguese	177	Portugal, Brazil
Bengali	171	India, Bangladesh
Russian	145	Russia, The CIS
Japanese	122	Japan
German, standard	95	Germany, Austria, Switzerland
Chinese, Wu	77	China

Javanese	75	75 Java (Indonesia)
Telugu	69	69 Andhra (India)
Marathi	68	68 Maharashtra (India)
Vietnamese	67	Vietnam
Korean	67	North & South Korea, China, Japan
Tamil	66	Tamil Nadu (India), Sri Lanka, Malaysia
French	64	France, Belgium, Canada, Switzerland
Italian	61	Italy
Punjabi, Western	60	Pakistan
Urdu	60	India, Pakistan
Chinese, Yue	54	China
Turkish	50	Turkey
Arabic, Egyptian	46	Egypt
Chinese, Min Nan	46	China
Gujarati	46	Gujarat (India)
Chinese, Jin	45	China
Poish	42	Poland
Ukrainian	39	Ukraine, Russia
Chinese, Xiang	36	China
Malayalam	35	India
Kannada	35	India

effectives of advancing trade and development and maintaining the stability of the international monetary system, though it has been shaken by a series of crises over the last three decades; but the dramatic shifts in the economic power of nations, especially of Asia, and the paramount importance of ending global poverty, hunger and disease calls for new mechanisms which are more responsive to the needs and urges of the vast majority of mankind. The United Nations system, itself in the process of some reform and revitalization, has called for an overhauling of the international economic institutions and policies which are no longer as relevant as they may have been in the past.

Trends in trade and capital flows are reviewed briefly in the following paragraphs. What is of great concern is that despite robust growth of the world economy, driven by not only USA but also China, India and other dynamic economies in Asia, there is no visible impact on narrowing of rich-poor income disparities while even in fast-growing major developing countries, the rural-urban divide has been widening. Also, the output expansion of recent years has not been accompanied by employment generation matching the rise in the adult work force. The number of unemployed had risen to 192 million in 2005, half of them young men and women, a situation which could potentially have serious social and economic consequences.

Challenge of Poverty

Global poverty remains the biggest social challenge. Some 1.2 billion people are living on less than a dollar a day in the international measurement of poverty - and more than two million people on less than two dollars a day. Though poverty reduction became a central objective of development for over two or three decades, the recorded progress so far falls short of expectations, partly due to ineffective or mismanaged implementation of

schemes to benefit the poor. There have been impressive gains in a few emerging economies in East Asia, notably China and moderate progress in South Asia - home of half of world's poor - but there is virtual stagnation in sub-Saharan Africa.

The Millennium Development Goals on social development including reduction of poverty by one-half by 2015, adopted by the international community at a UN Summit in 2000, may not be fully achieved, even in India. These goals, apart from poverty reduction, included alleviation of hunger and malnutrition, achieving universal literacy, decline in infant and maternal mortality rates, gender equality in school enrolment and empowering women, and ensuring environmental sustainability. Global monitoring of these goals shows that some of the rapidly growing economies could reduce poverty by half but most would fail on other social targets, barring Sub-Saharan Africa, which is unlikely to meet any of the goals.

Troubled Transition

The twenty-first century opened on a troubled note, terrorism posing the greatest threat to a world since the end of the Second World War sixty years ago, and nation-states are encountering new challenges, both geopolitical and economic, not foreseen in the latter part of the 20th century. The Millennium has not ushered in an era of relative peace and harmonious development for the peoples of the world, especially for the two-thirds of them in the developing world. To

insurgent violence, local conflicts, ethnic cleansing and state tyranny has been added terrorism in various manifestations on a global scale. All these are impacting on the normal life of peace-loving peoples all over the world in as much as these outrageous considerations considerable damage to human productive assets entailing heavy economic communities and Governments.

case of developing countries, slow down the wheels of progress.

On the economic and social side, with which this review of Global Economy is concerned, recent years have seen the explosive surge in the price of oil, which lubricates the global economy, hurting more seriously economies of oil-importing developing countries. The resulting significant rises in domestic costs and spiralling of consumer prices lead in turn to firming up of interest rates which could dampen growth. Also, the heavier import bills cause a drain on the foreign exchange reserves of these countries. Secondly, global imbalances, though relatable to a small group of countries (USA with a huge current account deficit matched by large trade and capital account surpluses of oil-exporters and a few emerging economies, mainly Asian, are raising fears of a sudden unwinding leading to exchange rate volatility and financial market destabilization with potentially negative impact on growth and development of other developing economies. Thirdly, the spread of globalisation relying on market forces has, far from creating new growth opportunities for the developing countries, not only accentuated the rich-poor divide but also failed to lower levels of unemployment even if jobs are generated in a few high-tech sectors for skilled professionals. Votaries of globalisation, however, keep urging countries to undertake structural reforms to reap the gains and avoid the risks inherent in the free play of market forces.

Structural Changes

The world economy has been undergoing transformation gradually over the last century and the twenty-first century has already ushered in the Information Technology and a Communications Revolution which would have a great impact on the operation of the economic system. Structural changes are under way as there is growing rivalry for global

competitiveness, as reflected in not only outsourcing of business services in the IT sector but also location of manufactures in countries providing low-cost labour and natural resources. Production processes in the global economy are thus getting more integrated.

These may be contributing to global productivity and supply of labour, skilled and low-skilled, and should normally help keep prices of products lower. Multinational firms from both developed and developing countries have been acquiring business abroad through mergers and acquisitions, which now make up the larger part of foreign direct investment flows. But not all developed nations which have for long embraced capitalism and serve the rules of economic liberalism that globalisation implies. Many leading countries in Europe and North America are seeking to restrict foreign investments in certain sectors or prevent take-over bids, without allowing choices to economic players. "Strategic concerns" and security considerations are cited for such restrictive policies which are complemented by trade protectionism undermining free flow of goods and services within the rules and disciplines of the multilateral trading system (WTO).

Doha Round

Global trade in goods and services can undergo radical changes if the Doha Development Round of multilateral trade negotiations can be successfully concluded. In mid-2006, even after five years of its launching, the Doha Round had made no substantive progress on the key issues of trade in agriculture (reduction of domestic support for farmers, phasing out of export subsidies and greater market access all involving commitments by the rich nations, especially USA and EU) or lowering of tariffs on manufactured goods. According to the extended time tables, the negotiations were to be concluded by the end of 2006.

The Round also covers Services in which developing countries have become competitive and seek wider markets for provision of their services including temporary movement of personnel and other trade-related issues. For the developing countries, maximum gains would come from rich countries lowering the barriers, especially for their cultural products, and for manufactures such as textiles and garments and leather goods in which they specialize. But the Round also to ensure the development dimension in any final deal. In the event of failure of the Round, there would be danger of reversion to protectionism and greater recourse to regional and bilateral trade deals between individual partners and further weakening of the rule-based world trading order represented by the 150-nation World Trade Organisation.

Population and Food

The world population was estimated at 6.4 billion in 2005 and the long-term projections are that by 2050, there would be 8 to 9 billion people, roughly a fifty per cent increase. Bulk of the increase in numbers would be in developing countries where the growth of population although declining are still faster than in the developed world. In fact, there is a declining trend in some of the industrial countries, mainly in Europe including Russia. China and India alone have more than 40 per cent of the global population. Unchecked rise in the numbers of human beings can only aggravate problems of poverty and meeting basic needs like food and shelter. The world is still far from realizing food security for billions of poor and many countries face severe shortage of drinking water. There is the looming energy crisis with oil prices likely to remain at unsustainable levels for years to come and there is a desperate hunt for discoveries of oil gas as well as for cleaner and specially renewable sources of energy.

In the industrial countries, population aging has become the most important economic challenge as over the next 50 years, there would be rapid growth of elderly persons to be looked after by the State with dramatic reductions in the worker-dependency ratio. International migration, with an estimated 200 million people living away from their homes, roughly half of them in the developed countries, is also posing problems of management for host countries though migrants, subjected to discrimination, are absorbed to a certain extent in lower-level occupations. Also, both the industrial and developing countries face immense challenges in renovating/expanding their infrastructure to cope with an expanding world economy involving investments in trillions of dollars.

Growth & Risks

Global economy grew at 3.6 per cent in 2005 propelled by both USA, maintaining a 3.5 per cent rise, and fast-growing emerging market economies, principally China (9.9 per cent) and, to a lesser extent, India (8.4 per cent) while trade volume expanded by over 7 per cent, mainly due to continuing export momentum of developing countries. Growth in trade has been outpacing GDP growth for over a decade now. The global environment has been highly favourable in recent years for non-inflationary growth driven by robust demand, corporate investments, increased productivity and record trade and capital flows. For two years, the world has grappled with the oil price surge, rising from 25 dollars a barrel in 2000 to 65 dollars on average in 2005, without impeding growth. But the high oil prices, which touched 75 dollars in April and again in July 2006, have begun to hit consumers in both advanced and developing countries.

The IMF reported in April that the year for 2006 looked even better on the

of higher growth estimates for China, India and Russia, the well-established recovery in Japan (after a decade of recession and deflation) and the emerging signs of recovery in the European Union. The recent economic reforms in China have resulted in a higher GDP in 2004 and with a nearly 10 per cent growth in 2005, China has become the fourth largest economy after USA, Japan and Germany.

A rosy picture of global growth for 2006 and 2007 has been projected though both the IMF and the World Bank have warned of the possibility of downside risks, which could be warded off in 2005, having to be encountered. These relate to an upsurge in inflation from the elevated oil prices and from a possible sudden unwinding of global financial imbalances (with growing US current account deficit of over 800 billion dollars in 2005 and rising trade surpluses and reserves of Asian emerging economies. Global growth at 3.7 and 3.5 per cent in 2006 and 2007 respectively has been projected by the World Bank.

Growth in major economies in 2006 and 2007 is estimated at 3.4 and 3.3 per cent for USA (which recorded a 5.6 per cent rise in the first quarter, rebounding from the sluggish last quarter of 2005), 2.8 and 2.1 per cent (Japan) and 2.0 and 1.9 per cent (EU). Developing countries are expected to grow by 7 per cent in 2006 but growth would be faster at above 8 per cent in East Asia for the two years (China 9.5 and 9 per cent). India's growth, which was above expectation at 8.4 per cent in 2005/06 could have a slowdown to a little over 7 per cent for these two years, according to IMF.

Yet, uncertainties were beginning to build up by mid-2006 as consumer price inflation rates in developed economies, which had remained at historically low levels (1 to 2 per cent) tended to move up, and the monetary measures were tightening in both USA and European Union. On June 29, US Federal Re-

serve raised the short-term rate to 5.25 per cent, the 17th consecutive increase, while the European Central Bank posted it at 2.75 per cent and both central banks had not ruled out further increases during the year depending on incoming data on inflation and output trends. For developed countries as a whole, CPI was above 3 per cent in May 2006, mainly due to energy prices. Global growth also tends to exert pressure on energy and raw materials markets and on prices. The other issue of major concern already referred to is the global imbalances which are likely to be even higher in 2006, in the 800-900 billion dollar range.

Meltdown in Markets

Unexpectedly, the world stock markets were thrown in turmoil for over four weeks in May-June, as investors reportedly perceived growing risks of inflation and interest rate revisions and adverse impact on growth from heightening geopolitical tensions and this triggered a wave of sell-offs. The mature markets adjusted themselves without much disruption as consumer and business confidence was unshaken but some of the emerging markets like India and Brazil saw more prolonged downturn with the largest falls in market values.

By early July, the Bombay Stock Market had substantially recovered and the sensitive index (Sensex) was well past the 10,000 mark, the high point to which it had raced in the earlier months. The IMF viewed the developments in mature markets as sharp correction of risky assets at the end of a prolonged period of accommodative monetary policy and highly liquid conditions in financial markets that had prompted a global "search for yield". It did not see it as a signal of an impending downturn. For the Indian market, which witnessed large outflows from the foreign portfolio investments, the recovery was relatively slow but by early July the market was ruling

well above its new five-digit benchmark with a balancing of ups and downs.

Global Imbalances:

First, the structural imbalance of the world economy : According to IMF classification, about thirty advanced nations led by USA, EU and Japan had a share of 52.3 per cent of global output of goods and services in 2005 while developing countries (including emerging market economies) accounted for 47.7 per cent. The largest economy, USA, had a share of 20 per cent of global output, followed by EU (14.8 per cent) and Japan 6.4 per cent. Among the developing countries, China accounted for 6.7 per cent of world output, a little higher than Japan's. It also had the highest share in output among developing countries with 15.4 per cent (India 5.9 per cent). In world exports, the share of developed nations was 68.9 per cent while developing countries accounted for around 31 per cent.

China's share of world exports was 6.7 per cent and India's, 1.3 per cent.

The problem of global imbalances has its origin in the high current account deficit of the United States over the years, reflecting mainly its large trade deficit with many trading nations, especially China with which it had a bilateral deficit of 200 billion dollars in 2005. Running twin deficits, budget and current, USA had moved from the position of a net creditor in the world to a net debtor. So long as American consumer demand for cheaper imported goods holds, trade deficits would keep growing. In 2005, US current deficit was above 800 billion dollars or 6.5 per cent of its GDP and analysts expected it to further rise in 2006 and later years unless the problem was tackled on a global dimension. The rise in international prices of oil has further worsened the deficits, with USA being a leading oil importer. But in the case of the two key

developing economies China and India

with rising energy demand, China has been able to absorb the oil trade deficit in its surpluses from higher exports while India's current surplus has turned a deficit.

The increase in US deficit is matched by the growth in current account surpluses of oil exporters and that of emerging Asia economies including China. USA is able easily to finance the deficit because both oil-exporters, who have earned an extra 400 billion dollars from the higher prices of exports, and China, besides Japan, along with a few other Asian emerging economies running large trade surpluses and accumulating reserves are investing in US treasury securities. The US Government's efforts to get China to revalue its currency to reduce bilateral trade deficit to some extent did not meet with the desired response. China, however, de-linked its currency, yuan, from the dollar peg and allowed it to fluctuate within a narrow margin as determined by market forces in July 2005. Yuan's appreciation till mid-2006 was a mere 3 per cent against the 10-20 per cent revaluation US business and economists were demanding. China's stand was for achieving greater exchange rate flexibility on a gradual basis without disrupting its domestic economy.

Developing countries as a whole have for some years been having a surplus in current account (which relates to the net outcome of two-way trade, tourism, transport, investment income and outgoes, and miscellaneous receipts including remittances). Not many years ago, they were running sizeable current account deficits. Individually, there are fewer developing countries having current account deficits due mainly to the export boom over of countries like China, Korea, Malaysia and oil-exporting countries. They are now current account deficits of low-income countries.

In 2005, developing market econ

a combined current surplus of 423 billion dollars as against the current account deficit of developed countries at 510 billion dollars. Here again, many industrial countries have a surplus but USA's deficit of 805 billion in 2005 has turned the current account of developed countries combined negative. The surpluses of developing countries and the deficits of developed countries, on a combined basis, will grow over the next two years. The surpluses have helped many developing nations to accumulate larger reserves of foreign exchange and they had 2,396 billion dollars of reserves at the end of 2005. China had the largest at 824 billion dollars, among developing countries, and by the first half of 2006 the figure had crossed one trillion (1,000 billion) dollars. India's reserves grew slowly to 136 billion, with some repayments, but by mid-2006 it had risen to 162 billion dollars. Reserve losses were recorded in many developed countries.

Against the background of these imbalances in trade and payments, and the unsustainable nature of the US current deficits which are set to worsen in 2006 and 2007, new efforts are being made under the auspices of the International Monetary Fund to secure a rebalancing of global growth, savings and investment. In the opinion of financial institutions and specialists, further accumulation of foreign liabilities by USA in order to finance its current deficits has potentially serious consequences for financial market stability, especially as, at some point, holders of dollar assets might lose their appetite for further investment in USA (which helps to finance the deficit) and this could bring down the dollar. This is easily said than done. For, the dollar, in which most of the global trade is denominated and reserves are held by most countries, enjoys the status of an international reserve currency. This also explains the benign neglect of US Government to the magnitude of the deficits thus far. But, such im-

balances unchecked could also strengthen the protectionist sentiment in USA where the Congress was planning to legislate for a punitive levy on imports from China, held mainly responsible for the large American trade deficits.

Treating the problem as a "shared responsibility", IMF's policy-setting Ministerial Committee authorized the Fund in April 2006 to pursue "multilateral consultations" with the concerned Governments to address the imbalances while maintaining robust global growth. In the first such consultation, China, Japan, EU, Saudi Arabia (all surplus countries) and USA (record deficits) had agreed to participate in efforts aimed at reducing the imbalances on a collective and consensual basis. Broadly, it had been suggested for some time that the US should cut its fiscal deficit and help stimulate private savings while surplus countries should have greater exchange rate flexibility and take measures to make their economies more domestic demand-based, reducing the present level of dependence on exports. There would thus be a rebalancing of global aggregate demand. The IMF hoped to conclude the first round of consultation before the end of 2006.

Trade and Commodities

The World Trade Organisation (WTO) had projected a 7 per cent growth in volume of global merchandise exports in 2006 as against the 6 per cent in 2005, but a later World Bank estimate puts the growth at 6.5 per cent in 2005 and 7.6 per cent in 2006. The latter estimate takes note of a resurgence in economic growth in the European Union which should increase domestic consumption and employment. The value of exports of merchandise in 2005 crossed the 10 trillion dollar mark (10,120 billion) and that of commercial services was 2.4 trillion, the growth in value being 13 per cent for goods and 1 per cent for services. The rise in the value of

global trade in part reflects the big rise in prices of metals and fuels. Strong export growth was recorded by countries in Africa, Middle East and Central Asia, helped by the rise in oil prices.

While exports and imports growth varied among developed nations, trade performance of developing countries including India continued to be strong. China's exports were 26 per cent while India's was also around 25 per cent in 2005-06. The share of the developing countries in world merchandise trade has been rising with China becoming the world's third largest exporter and importer after USA and Germany having a share of 7.3 per cent in exports and of 6.1 per cent in imports.

A large number of countries including developed nations are increasingly dependent on the vast Chinese market which has become a global manufacturing hub which imports inputs from the Asian region and re-assembles for exports. Its growing low-cost exports include machinery, electronic products and textiles and clothing. China's two-way trade in 2005 crossed the 1.4 trillion dollar mark. In 2005-06, India's two way trade exceeded 250 billion dollars in goods and 135 billion in commercial services.

In 2004, developed economies' exports totalled 8.975 trillion dollars while those of developing countries were about three trillion dollars. Region-wise, developing Asia's exports were the largest at 2.3 trillion dollars. In 2004, China directed 59 per cent of its exports to developed economies, mainly to North America, EU and Japan, and 39.6 per cent to developing countries whereas India shipped a higher percentage of goods to other developing countries (50.2 per cent) and 47.8 per cent to developed economies like EU, USA and Japan. Manufactured exports accounted for 91 per cent of China's exports and 76 per cent of India's. US deficit in trade with China rose to 202 billion dollars in 2005.

Commodity price increases, especially metals and minerals, helped to boost export revenues of commodity exporters among developing countries.

With the sharp swing in commodity prices (oil, metals etc), many developing countries could get out of growth stagnation, such as in sub-Saharan Africa. But this cycle was not expected to last as non-fuel commodity prices were tending to moderate in 2006. Oil prices continued on an unrelenting uptrend due to rise in demand in China and India as well as in the USA coupled with volatility on fears of supply interruptions in producing countries caught in civil disorder or conflicts. World consumption of oil was 85 million barrels a day in the first half of 2006. No significant fall in oil prices is considered likely over the medium term. The World Bank estimates the average price of crude to rise to 64.2 dollars in 2006 from 53 dollars in 2005.

Capital Flows

Capital flows to the developing countries, substantially private flows, have taken the center stage in meeting their financing needs since 1990s, especially in the wake of economic liberalization by many countries, and as official development assistance flows declined as a ratio of gross national income of the aid-extending richer nations. This ratio was not even half of the UN target of 0.7 per cent of GDP, set at the beginning of 1980s. Governments and private sector of developing countries, especially emerging market economies, depend on capital flows both for investment and trade financing needs. A large part of private flows is made up of foreign direct and portfolio investments channeled to several countries with the rise raised by corporates in multinational markets or through commercial banks and from banks abroad. These flows have eclipsed official loans that developing countries

from bilateral creditors and multilateral financing institutions like the World Bank. Even the relatively low share of official aid and debt has been turning increasingly negative as developing countries service past official (bilateral and multilateral) loans and there has been no increase in official financing in real terms.

On the other hand, private capital flows (by way of bonds raised in international capital markets, syndicated commercial bank lending, investment flows, direct and portfolio, and short-term debt) have been on uptrend. In 2005, net private capital flows (net debt and equity) totalled 491 billion dollars, but on official account (receipts and outgoes), there was outflow of 71.4 billion dollars by way of debt servicing, thus leading to a transfer of resources from developing to developed countries. For many poorer countries, especially in sub-Saharan Africa, which cannot easily raise capital abroad, official development financing continues to be important as private flows go only to credit-worthy and growing economies.

According to the World Bank's Global Development Finance 2006 Report, the larger private flows are driven by privatizations, mergers and acquisitions, external debt refinancing and strong investor interest in local currency bond markets in Asia and Latin America. The surge in private capital flows must also be seen in the context of a buoyant phase of world economic expansion and the robust 6.4 per cent growth of developing countries as a whole in 2005. Most of the private capital flows, however, go to a small number of middle-income countries and this is especially true of foreign direct investments which are attracted by fewer countries. China heads the list drawing 60 billion dollars a year as FDI.

In 2005, the net private capital flows of 491 billion dollars included equity flows of 299 billion dollars (FDI 237.5 and portfolio

61.4 billion) and private debt flows of 191.6 billion made up of bonds issued, bank loans and short-term debt. While official development assistance was higher at 106 billion dollars, a good part of the increase over the previous year was for debt relief for Iraq and Nigeria. Overall, for all developing countries taken together, net official flows were negligible and developing countries' debt servicing included 41 billion dollars to IMF and 31 billion dollars to others (bilateral).

Although most countries prefer, and are trying to provide a conducive policy framework for FDI, these flows have for years been uneven as they go mostly to select countries and regions. Apart from China, the largest recipient of FDI, the share of South Asia as a whole, was only 8.4 billion (India over 5 billion dollar), less than sub-Saharan Africa's 17.6 billion dollars. Total, including debt flows to South Asia was 23.6 billion, one-twentieth of global private capital flows. China has lately begun to attract FDI in service sectors (banking) besides manufacturing. Total FDI in China was 562 billion dollars by early 2006, according to official Chinese data, as against the cumulative direct investment of 45 billion and portfolio investments of 55 billion in India till December 2005 (RBI).

A large part of global FDI flows into developed nations was due to take-overs and mergers and acquisitions of firms, some of a large magnitude - like the 100 billion dollar merger of Shell and Royal Dutch (of UK and the Netherlands respectively). M and A also played a large part in FDI into China and India. Much less of FDI went for greenfield projects last year. It is also noticeable that many industrial countries are trying to tighten regulations to discourage foreign participation in areas perceived to be of strategic interest. China's state-owned oil corporation was thwarted from bidding for an American oil firm last year. There is risk that regulatory actions may sometimes exceed what is

ded to safeguard essential interests and motivated by protectionist notions, according to the Organisation of Economic Cooperation and Development (OECD - Paris).

The outlook for capital flows to developing countries in the current year and 2007 depend on the sustainability of current global expansion. The foreign investor appetite for emerging market assets could dissipate somewhat if home country interest rates go up. Given the soaring oil prices and the widening trade and payments imbalances among countries, there could be storms ahead, the World Bank warned in May and urged developing countries to put policies in place which would strengthen their capacity to weather external shocks. Central banks around the world were already seized of the emerging inflationary pressures from high energy prices which would necessitate further monetary tightening by raising the policy rates - a process well under way in the first half of 2006 both among advanced nations and emerging economies. Many developing countries, reeling under the impact of high oil prices, have exhausted their surpluses and other cushions and are vulnerable to shocks.

also been spurred by the regional trade agreements.

Though a small share of global private flows, south-south transfers have the potential to change the face of development finance, if developing country growth continues to outpace that in developed countries over the coming two decades, the World Bank said. Even here, FDI originates from firms in countries with higher incomes and is invested mostly within the same region. Also, FDI is intended to tap resources like energy in other countries and half of China's investments abroad has gone to natural resource projects in Latin America and Africa.

Remittances

Remittances to developing countries in 2005 are estimated at 167 billion dollars by the World Bank (173 billion according to UN estimates), and these flows, says the Bank, can have significant impact in reducing poverty, facilitating increase in household consumption in education and health and supporting economic activity. At the same time, the Bank notes that the higher prices paid for goods and services in developing countries has raised

justed capital flows. Private transfers (workers remittances) to India in 2005-06 were 25.22 billion dollars as against 21.27 billion in the previous year. Such remittances have been a significant factor in keeping the current account deficit to the minimum, the other being the earnings from software exports which had risen to 23.60 billion dollars in 2005-06 from 17.20 billion the previous year.

Employment

Global economy on robust expansion for four years now has failed to deliver new jobs for those entering the work force, and with some 192 million seeking work at the end of 2005, the unemployment rate stood at 6.3 per cent without much change while developing countries bore the brunt of the problem with profound economic and social consequences, the International Labour Organisation (ILO) said in a report in June 2006.

ILO has projected that by 2015, there would be an increase of 430 million in the world labour force, over 80 per cent of it in developing world, and this would need an annual job generation of more than 43 million over the coming decade to ensure that unemployment levels do not rise further. Under globalisation, employment intensity has declined and the dignity of work has been devalued, according to Dr. Juan Somavia, Director-General of ILO. The world

labour scene is characterized by high youth unemployment, gender discrimination, hazardous occupations, child labour and lack of social protection for millions in the informal sector. Continuous large-scale shifting out of agriculture and rural areas into urban centers pushed by poverty and pulled by the hope of decent employment was adding to the enormity of the problem.

At the same time, there are growing skills shortages in developing countries as they come to terms with the inroads of technology in an increasingly competitive global environment. Technological change is threatening the job security of many working men and women who are unable to find alternative jobs. Greater efforts on skill development of workers and managers is vital to garner and share the benefits of new technologies, the report stressed.

What the ILO has reported is equally true of India as there is a growing mismatch between demand and supply of highly skilled persons for Information Technology and other professional disciplines. At current levels of absorption in IT services, India could also face a shortage unless institutions of higher education expand and turn out quality personnel in much larger numbers than at present. This assumes urgency as India is currently the leading destination for services outsourced by advanced nations, particularly the USA ■

The World in 1900

Population : 1.6 billion

Life Span	Men	- Women
Japan	44	45
Italy	44	45
USA	48	51
Mexico	32	34
Afghanistan	41	42

Average Working Hours
(Per week, industrial occupations)

U.K.	:	52.4
U.S.A. & Netherlands	:	52.0
Denmark, France & Japan	:	51.7
Germany	:	51.6

The World of Careers

B S Warriar
Career Consultant

We live in a knowledge society. The Marxian doctrine of haves and have-nots has now assumed a new dimension of information, and not of wealth in terms of money. Arriving at our best career option is possible, only if we gather as much information as possible on diverse professions and educational opportunities. We should break the shackles of prejudices such as attaching unqualified superiority for professions like medicine, engineering, and the civil services. There is tremendous diversity in the matter of careers covering conventional as well as emerging fields.

The list of possible careers is perhaps endless. A modest effort is being made here to highlight some of them that have relevance in the current national scenario with the seamless world as the backdrop. The career path of any individual has to be chosen, taking into account factors such as aptitude and learning ability of the student, financial position of the family, opportunities for higher studies, duration of the course, the gender factor, proximity of the educational institution from home, and prospects for early employment.

The treatment is indicative and not exhaustive. Any aspirant should gather further information on his favourite fields of choice.

AIRCRAFT PILOT

An aircraft pilot has a rare charm and glamour. The training is tough and expensive.

The pilot's job demands sound technical knowledge of his aircraft, ability for flawless

interpretation of the readings of sophisticated instruments, and for complex manipulations at takeoff and landing as well as in midair. Alertness, quick thinking, unambiguous communication with the ground control personnel, mental balance for facing trying moments during flights, grit, presence of mind, self confidence, and good physical fitness are necessary. Salaries and perks are attractive.

There are three progressive stages in the training of a commercial pilot: SPL, PPL and CPL (Student / Private / Commercial Pilot Licence)

Candidates who have passed 'plus two' examination with Mathematics and Physics as optional subjects and completed 16 years of age can embark on pilot's training. Flying clubs would give initial tuition. Those who have good physical fitness and a pass in the once-in-a-lifetime pilot's aptitude test will receive SPL. When you complete 17 years of age, you can sit for an objective test conducted by the Director General of Civil Aviation, New Delhi. You must have completed a total of 60 Hours of flying with 20 hours of solo including five hours cross country. Medical certificate has to be obtained from the approved authority. You secure a PPL.

CPL comes after acquiring thorough competence. Stipulated hours of flying covering solo, cross country, instrument, and night flying. Medical fitness to be certified either at the Air Force Central Medical Establishment, New Delhi, or the Institute of Aerospace Medicine, Bangalore. Passing a written examination and rigorous flying tests are vital.

training for three to five years would
red to make you a commercial pilot.
ndira Gandhi Rashtriya Uran Akademi,
eli is the premier centre that offers ab
aining and has a combined programme
overs CPL and B Sc Aviation. There are
l authorised centres of training, with
nment subsidies to students. List of cen-
n the site <http://dgca.nic.in>.

INFORMATION & MULTIMEDIA

Courses in animation and multimedia of-
opportunities to those who are blessed
h artistic talents and imagination, and have
passion for computer-based studies. The
ograms are of short duration. Anyone with
'plus two' qualification can go in for this
ind of training.

Multimedia may involve a fine mixture of
text, graphics, photographs, animation,
video, sound, and interactivity, offering
boundless possibilities in effectively convey-
ing a message.

There is a convergence of art, science, lit-
erature, commerce, and industry in multime-
dia. Its application has made education and
entertainment richer. CD ROM, Internet
webs, advertisements, computer games, cin-
ema and television require those trained in

ARCHITECTURE

Architecture is a happy union of art and
technology. It merges gift of imagination,
sense of aesthetics, and sharp precision.

We need architects for the competent de-
sign of dwelling houses, schools, hospitals,
shopping complexes, churches, temples, fac-
tories, and other buildings. They plan and de-
sign housing complexes, gardens, parks, thr-
oughfares, commercial centres, plazas, etc.
Town and country planners ensure optimum
utilisation of the available land. An architect
should ensure that the design matches the
environment, without sacrificing aspects such
as safety, economy, and utility. They may
have to supervise works.

Excellent skills in sketching, drawing, and
computer graphics, numerical ability and
mathematical mind, and gift of visualisation are
essential attributes. An architect should be con-
versant with the availability of materials, their
quality, durability, and cost. He should have
the temperament for long periods of office
work, and patience for revising or redoing a
work without grumbling. He may have to
make models for display and discussion before
finalising the design. He should necessarily
know the government norms, rules and regu-
lations relating to construction. Sometimes a
client may refer to a number of things which calls

cesses for specific use. It makes tremendous strides perhaps faster than electronics or computer technology. It is sure to play a vital role in our life in the coming years.

The impact of biotechnology will be felt in activities including agriculture, industry, medical treatment, and environment. New species of plants, new dimensions in preventive medicine and medical treatment, pharmaceuticals, insecticides, hormones, manure, animal husbandry, cloning, transplantation of embryos, pisciculture, immunology, genetics, and many other areas will be influenced by this interdisciplinary field of study and research.

Biotechnology is closely linked to genetic engineering that involves the directed alteration of genetic material. Substances like human insulin, growth hormone and human interferon (a natural virus-fighting substance) have been produced this way. Recombinant-DNA techniques along with methods for producing monoclonal antibodies have improved medical diagnosis and oncology.

Students with diverse backgrounds can take up courses in biotechnology. A bachelor's degree may not take you very far in the profession, since this is primarily a research-oriented discipline. A genuine desire for sustained research work, persistence, and resilience to withstand temporary setbacks, and real scientific temper are essential for achieving success in this line.

There are many universities that conduct programs at different levels. Public as well as private sector organisations offer facilities for research.

BIOINFORMATICS

The nascent field of bioinformatics represents the marriage of biotechnology and information technology. It deals with computational management of all kinds of biological information. Sometimes it is referred to as *in-silico* biology indicating that it is performed on computer.

The quantity and diversity of biological information are so enormous that the data can hardly be analysed by conventional means. Sophisticated computerised techniques have become essential in processing the data. Bioinformatics uses computer software tools for database creation, data management, data warehousing, data mining, and global communication network.

The real challenge in bioinformatics is the intelligent analysis of the wealth involved in the deluge of sequence data. The information has to be interpreted for proper appreciation in terms of protein structure, function, and evolution.

Jobs opportunities would be in the areas of data mining (sorting huge amounts of unorganised biological data), gene banks, protein data banks, developing diagnostic kits, genomics (functions of genes), proteomics (functions of proteins), customizing software, etc. Those who have a genuine interest for sustained research work will find bioinformatics a fertile ground for studies and training. A mere Bachelor's Degree may not take you very far in the profession.

Proficiency in IT, biology, and mathematics is necessary for work in biotechnology. Those who come from any one of these disciplines can enter the field and master the other areas as required.

CHOREOGRAPHY

There are offbeat professions such as that of the choreographer. With the rising popularity of cinema, television, and stage shows of performing arts, there is great scope for choreography. It is the art of planning, composing, designing and arranging the steps, movements, and patterns in dances. Even subtle variations in feelings, moods, and emotions have to be reflected through expressions and movements. Group dances involving synchronous movements of several bodies have their own flavour.

Environment Protection Training and Research Institute, Hyderabad

National Information Center of Earthquake Engineering- IIT Kanpur

The process of disaster management offers opportunities to a wide variety of professionals such as an IT expert developing special software and an engineer designing an instant construction scheme. Presence of mind and mental toughness are essential for working calmly in trying circumstances.

FINANCE PROFESSIONS

Without the hassles of entrance tests or counselling sessions, you can walk into attractive professions in the finance sector. There are three options: chartered accountant, cost accountant, or company secretary. You need not attend a regular college, but undergo instruction through correspondence arranged by the concerned institute. You may, if interested, attend the oral classes organised by accredited institutions. The qualifications you acquire have a statutory status. The fees are moderate.

The training programs of the three disciplines are similar. After 'plus two', you pass a foundation test, and then intermediate and final examinations. The institute of chartered accountants has renamed the foundation and the intermediate as professional education (PE) I & II. If you are a graduate, you can skip the foundation.

CHARTERED ACCOUNTANT: After PE I & PEII and the prescribed 250-hour computer training, you should work for three years as an articled clerk with a practising chartered accountant.

Can work as an accredited accountant, authorised auditor, corporate caretaker, financial consultant, or tax specialist, or go for corporate jobs. Details: [HYPERLINK "http://www.icaai.org"](http://www.icaai.org) www.icaai.org (Enterprising youngsters may go for "CPA" - Certified Public Accountant - popular in many countries

including the US or "ACCA" - Association of Chartered Certified Accountants- prevalent in the UK and other countries.)

COST & WORKS ACCOUNTANT: Cost reduction is vital in any manufacturing industry. Computation of costs and identifying methods of cost reduction are done by cost and works accountants. They give the right prescriptions enabling the best possible management decisions.

Their functions include statutory maintenance of cost accounting records, evaluation of worth in investments, critical analysis of financial performance of organisations, internal co-ordination in industrial or commercial undertakings, budgeting, monitoring and analysis of data, and auditing. Details:<http://myicwai.com>

COMPANY SECRETARY: He is not a secretary to the CEO or MD, but a top-notch professional in the corporate sector. If you are endowed with legal aptitude, analytical skill, tact, ability to keep official secrets, and sheer will to win through hard work, this is your line.

Companies with a paid-up share capital of Rs 200 lakhs or more are statutorily required to appoint a whole time Company Secretary. If the paid-up share capital is between Rs 10 lakhs and 200 lakhs, a whole-time CS should issue a 'compliance certificate'.

The functions of a CS spread over management, finance, tax, corporate planning, and legal affairs. He should ensure statutory compliance of the company on different fronts. He is a dynamic link connecting the board of directors, shareholders, and regulatory agencies. He acts as a confidant of the Board of Directors, counsels the directors and functional heads on policies, procedures, and legal implications. He takes part in the formulation of corporate policies and programs. He discharges secretarial functions such as filing company returns with the Registrar of Companies and other authorities. A Com-

any Secretary can be a consultant or go for private practice.

Apart from passing the Final Examination, candidate has to undergo practical training for 15 months in a company / under a practising CS.

Details : www.icsi.edu

INFORMATION TECHNOLOGY

This is a discipline that opens the floodgates of job opportunities to millions of our youth. The diversity of services demanded by industry is so large that one has to identify this area of operation. Conventional Bachelor's Degree in IT is not a must for a position in the field. People with different attainments have openings. India has gained substantial reputation at the global level in terms of quality rendered.

According to one definition, IT is the convergence of computer, information, intelligence, communication, Internet, and technical administration. It integrates data, equipment, personnel, and problem-solving methods in planning and controlling business activities. IT provides the means for collecting, storing, encoding, processing, analysing, transmitting, receiving, and printing text, audio, or video information.

BPO (Business Process Outsourcing) is a significant area that absorbs people with computer competence, good command of English language, and soft skills. BPO essentially involves a contract with an organisation in a developed country like the US, for providing a business process or function. This process may entail various kinds of efforts such as Accounting, Animation, Back office, Banking, Call centre operation, Chip design, Clinical research, Computer programming, Content development, Customer services, Desktop publishing, Engineering, Insurance services, Invoicing, Knowledge services, Management consultancy, Medical services, Product design, Software, Taxation, Telecommunication,

Transcription, and Travel agency services. There are several areas of work listed as IT-enabled services. Apart from thorough knowledge of the concerned domain, some of these may require attributes such as effective communication, ability to think in English, pleasing attitude towards customer service, ability to react with empathy, and telemarketing skills.

India accounts for only a very small percentage of IT global market share; but the BPO share is still less. The IT enabled services that may be considered as a component of BPO offers bright prospects of employment. Those who have acquired higher qualifications can take up work known as KPO (Knowledge Process Outsourcing) involving research and relatively higher order intellectual work that pays much more than run-of-the-mill BPO jobs. It has been estimated that KPO would grow at 46 percent to reach a staggering 17 billion US dollars by 2010, of which 12 billion would be outsourced to India. India may have more than 2.5 lakh KPO professionals by 2010. With our intellectual potential as the key factor, India could emerge as a global KPO hub.

MANAGEMENT

Effective management of resources is an essential ingredient of progress in any organisation. Competent leaders should motivate people to optimise their performance with a definite goal in view. Simple common sense and general awareness alone may not solve complex problems in modern systems. A business management curriculum may contain subjects such as cost and management accounting, operations research, quantitative techniques, data warehousing and data mining, strategic management and supply chain management.

Usually a graduate in any discipline with a minimum of 50% marks can join the stream of management studies. There would be a

written test containing subjects such as data sufficiency & interpretation, reasoning, quantitative aptitude, reading comprehension, and verbal ability. Those who perform well in the written test would be called up for group discussion and interview. Admission to any business school involves these steps. The institution from which you secure your qualification has a profound significance in finding a placement. Premier centres like the Indian Institutes of Management offer attractive placement opportunities.

There are several management admission tests:

CAT - Common Admission Test, conducted by the IIMs (Many other business schools also use CAT score for the first level selection)

XAT - Xavier Admission Test, conducted by XLRI (Xavier Labour Relations Institute), Jamshedpur

MAT - Management Aptitude Test conducted by All India Management Association, New Delhi

ATMA - AIMS Test for Management Admissions (AIMS - Association of Indian Management Schools)

JMET - Admission to IITs & IISc

GMAT - Graduate management Admission Test (Globally recognised qualification)

The usual disciplines of specialisation are Marketing, Human Resources, Finance, Operations, and Computer Systems. There are however certain institutes or programs that specialise in specific areas, such as Rural / Plantation / Forest / Textile / Agri-business / Software Enterprise / Bank / Power / Retail / Hotel / Hospital Management, and Foreign Trade / International Business.

NANOTECHNOLOGY

This is a discipline that offers results that remind you of speculative science fiction. Would you believe that by manipulating matter at the atomic scale, materials up to

100 times stronger than steel, at a fraction of its weight, can be made? It makes most products lighter, stronger, cleaner, less expensive and more precise. Experts say that atoms in sand can be rearranged with addition of other elements to make computer chips. If we rearrange the atoms in dirt, water and air we can make potatoes. Patients may drink medicinal fluids containing nano-robots programmed to attack and reconstruct the molecular structure of cancer cells and viruses to make them harmless.

Nano is Greek for dwarf. 'Nano' in scientific parlance means one billionth. Nanotechnology is the science of the small. It studies the structure and behaviour of materials at atomic or molecular level.

Nano-robots could also be programmed to perform delicate surgeries. They can operate seamlessly without leaving the scars that conventional surgery does. Molecular computers could contain storage devices capable of storing trillions of bytes of information in a structure the size of a sugar cube.

Nanotechnology is expected to usher in the next industrial revolution. It will have wide applications in biotechnology, and in pharmaceutical, medical, agriculture, food and beverage, and environmental industries. From these descriptions it is obvious that it is a research-oriented discipline. Those from diverse science streams can seek entry to the field. National research organisations and certain universities offer facilities for research.

NURSING

Nursing is the face of compassion in the field of healing and medical service. Indian nurses have made tremendous reputation at the global level. There are great opportunities at the national as well as international levels. After 'plus two' with biology, chemistry, and physics as the optional subjects, you can undergo the 4-year B Sc or the 3-year General Nursing and Midwifery program,

two technologies of numerical control and teleoperation.

Limited facilities can be found in institutions such as the IITs for research-oriented work in this discipline, mostly as part of PG programmes. BITS Pilani, Indian Institute of Science Bangalore, and Manipal Institute of technology also have facilities.

SCIENCE & HUMANITIES

We are not trying to combine two opposites. In the mad rush for engineering and medicine, students and parents often forget options such as Dentistry, Veterinary Science, Forestry, Fisheries, Agriculture, Ayurveda, Homeopathy, , Pharmacy, Law, Fine Arts, Fashion Design, Acting, Music, Modelling, Teaching, Travel & Tourism, Journalism, Advertising, Public Relations, Foreign Languages, Design, Merchant Navy, Physical Education, Food Technology, Physiotherapy, Occupational Therapy, Special Education (teaching the handicapped), Spatial Design, Film & TV, Photography, Library Science, Food & Nutrition, Cosmetology, Criminology, Jewellery Design, Gemmology, and Defence Services. Each one of these offers opportunities to the right persons.

Mathematicians have before them areas such as operations research, programming, design of computer systems, and actuarial science. Statisticians play a vital role in national planning. Those who take up physics have ample opportunities in research in areas such as Astrophysics, Geophysics, Nuclear Physics, Astronomy, Meteorology, and Electronics. Chemistry is a discipline of its own charms, spreading its tentacles to fertiliser, pharmaceutical, metal, oil, soap, paper, polymer, textile, fuel, food, plastics, paint, varnish, and pesticide industries. Research in different branches such as organic, inorganic, physical, analytical, electro, radio, histo,

geo, bio – chemistry offer interesting challenges.

Certain professions are the preserves of those who have specialised in history, whereas some others show preference to graduates or post-graduates in history. Archaeology, museology, numismatics, epigraphy, and archives are examples.

Economists have openings in business journals, banking industry, planning cells, etc. where economic analysis is required. The Indian Economic Service recruits competent economists through UPSC examination.

Those who take up psychology have wide options as experimental / educational / industrial / clinical psychologists, counsellors, psychometrists (experts in determining aptitude, intelligence, etc.).

Commitment to social work can find expression in an effective manner, if we get ourselves trained in subjects such as sociology, social work, and psychology. Social work has different faces like community / medical / gerontological / correctional social work, baby care, childcare, and family welfare.

Learning languages has its own charms. Proficiency in foreign languages like French, German, Russian, Japanese, Spanish, Italian, Chinese, and Arabic will open opportunities to work as specialists in the diplomatic service, interpreters, translators, and tourist guides,

Graduates in any discipline after a course in journalism and communication can join the challenging career covering print and electronic media. Advertising and Public Relations are two disciplines close to journalism.

Law, fashion design, film and TV, management, teaching, special education, library & information science, and sports coaching, are some of the areas open to university graduates in any subject, but gifted with the appropriate aptitude. Graduates with poise and skills can contemplate the job of an airhostess / flight purser.

English and Subject Proficiency Examinations for Entry into Universities Abroad

Nirmala Krishnaswamy, Chennai

With the demand for personnel in various fields ever on the increase in the United States and in many other countries abroad, there are vast opportunities available for Indians, both for academic pursuits and for taking up jobs in different parts of the world.

However, whether it is to seek greener pastures or to improve one's academic credentials one may have to appear for one or more of the

Listening passages simulate college lectures and follow 'natural' speech patterns, including pauses, corrections and errors in grammar.

Reading passages, on the other hand, are more academic in nature so that they are closer to college reading assignments. Students have access to a glossary.

b. Structure Section:

Grammar skills are tested across all areas

± 30-minute and

reports by phone, fax, or mail and have them sent to institutions that he did not identify when he registered to test. Credit cards are required for phone and fax orders.

To order by phone, candidates must call 1-609-771-7714. For this, the following details are required: the 7-digit registration number printed on the admission ticket (PBT) or the 16-digit appointment confirmation number (CBT), test date and date of birth.

A valid credit card (international)

A four-digit institution code (PDF) and two-digit department code (PDF) for each score report that is requested.

To order by fax or mail, the TOEFL CBT/PBT Score Report Request Form (PDF) along with all credit card information is to be completed and faxed to 609-771-7500.

To order by mail the Score Report Request Form must be completed and mailed with payment to

ETS-TOEFL iBT

P.O. Box 6153

Princeton, NJ 08541-6153 U.S.A.

The iBT measures the candidate's familiarity with English as a communication tool in every day situations. The Computer Based Test (CBT) tests the candidate's proficiency in individual language areas such as grammar, usage and vocabulary and the scores obtained in each of these is used to arrive at the candidate's overall proficiency level in language. Instead of measuring the candidate's grammar proficiency through questions based on structures, the iBT tests the candidate's control over grammar directly by assessing the candidate's grammatical structures from the way he employs them in his essays.

TOEFL – CBT (Computer Based Test)

TOEFL – CBT has 4 sections

a. Listening: In this section the candidate listens to short and long conversations, lectures and class room discussions. The ques-

tions answered give an insight into the candidate's ability to identify facts and options that are part of the listening passages. There are 30 to 50 questions and the time-limit is 40-60 minutes.

b. Structure: There are 20 to 25 questions to be answered in 15 to 20 minutes. This section tests the candidate's command over basic English grammar rules. The questions are in the form of

i. sentence completion and

ii. error identification

c. Reading: There are four to five passages. The questions number between 30 and 50. The time allotted is 40 to 60 minutes. Passages cover topics which a school student should be familiar with.

d. Writing: Here a candidate is required to write an essay on a general topic. The candidate has half an hour within which he composes his essay.

TOEFL iBT (Internet Based Test)

a. Listening: There are two conversations between two people, two lectures including some student comments and two other lectures which do not have student comments. There are five questions based on each of the conversations and six on each of the four lectures.

While the conversations could be between a professor and a student or between a student and a librarian lasting two to three minutes each, the lectures could be on a whole range of subjects.

The questions test candidates on what they understand from the speakers, ideas, what the implications are and whether they are able to draw inferences, whether they can locate the main theme in a lecture and whether they are able to identify details, understand idioms, summarise main points and perceive the speaker's tone and attitude.

b. Speaking: This section tests the candidate's ability:

i. to speak cogently on topics in an academic setting;

ii. to participate in a discussion

The candidate's responses are recorded. Preparation time is given. There are six tests of which two are independent and four are integrated.

For the independent tasks: a candidate's response time is 45 secs which comes after a 15-second preparation time for the first one and for the second, a candidate has to give his opinion and also the reason(s) behind it.

For the integrated tasks: a candidate has to read, listen to an one-minute conversation on what is printed and then summarise what he has heard. The voice is taped. The response has to last 45 seconds after a 30 second preparation time.

Tasks 4,5 and 6 are all related to listening and then summarizing. The tasks get progressively more and more challenging.

c. Writing: The part of the TOEFL exam consists of two tasks, one of which is an independent task and the other an integrated one. The former is allotted 30 minutes to complete and the latter: 20 minutes.

The iBT gives a better picture of the candidate than what one can get on the CBT. The Writing section is new in concept and the speaking section too is quite different. Various language skills are tested and the preparation has to be systematic, and nothing short of a concerted effort would give the desired result.

The TOEFL test can be taken only once per calendar month and at present costs U.S. \$ 140 per test.

SAT Scholastic Aptitude Test

The SAT examination is for those who wish to pursue an undergraduate course in the U.S. Some universities require both the TOEFL and the SAT scores.

This test consists of a

a. math section

b. critical reading section and

c. writing section

SAT math section:

This part of the test consists of

i. Two 25-minute sections and one 20-minute section

ii. 44 multiple-choice and 10 grid-ins and

iii. is worth 200 to 800 points

Questions on algebra are included and although there are some questions on triangles, trigonometry is not required to solve them. The other topics a candidate should be comfortable with are:

Sets, absolute value, radical equations, exponents and functions.

The Math Section essentially consists of problem-solving, questions on topics a candidate is expected to have learnt at school, including geometry, algebra and arithmetic.

SAT Critical Reading Section

This section tests the candidate's reading comprehension skills.

The test consists of:

i. Two 25-minute sections and one 20-minute section

ii. 48 reading comprehension questions

iii. 19 sentence completions questions

The test is recorded on a 200 to 800 point scale

In the Passage-Based Reading, candidates are asked to read short and long passages followed by some multiple-choice questions.

In the Sentence Completion question, the candidate are presented with incomplete sentences and are asked to finish them with the correct word or words.

SAT Writing Section:

This section consists of

i. 49 multiple-choice questions and

1 an essay

25 minutes is to be spent on the essay.

The test is worth 200 to 800 points.

The Essay:

The Essay will require students to read an 80-word subject prompt that makes a statement or claim. Candidates need to take a stand in their essays and support it with examples from their own experience. The essay does not test the candidate's writing ability as much as it does other skills, such as: organization, idea development or backing an argument.

Identifying Sentence Errors:

There are 18 Error identification questions. A sentence may or may not have an error in it.

Improving Sentences:

25 sentences are given and these are to be improved without changing the meaning of the original sentences.

Improving Paragraphs:

There are six of these. Much like improving sentences, paragraphs are required to be improved, but again, without changing the original meaning intended.

GRE-Graduate Record Examinations:

The GRE General Test "measures critical thinking, analytical writing, verbal reasoning and quantitative reasoning skills that have been acquired over a long period of time and that are not related to any specific field of study".

The GRE subject Tests assess undergraduate achievement in eight specific fields of study.

These are: 1. Biochemistry, Cell and Molecular Biology

2. Biology

3. Chemistry

4. Computer Science

5. Literature in English

6. Mathematics

7. Physics

8. Psychology

Prospective graduate applicants are the ones who sometimes take the Subject Tests.

Some Subject Tests yield sub scores that

can indicate the strengths and weaknesses of individual.

Student's preparation and this is useful for placement purposes.

The Subject Tests are given at paper-based centers worldwide three times a year in November, December and April.

If a prospective candidate is planning to take the GRE in fall 2007 (Sept/Oct) or later, it is to be noted that the test format and delivery will be dramatically different from the current one.

A comparative table is given below indicating the differences between the Current GRE and the new GRE.

Test development, design and field testing will continue for the new GRE test and the finer details ought to be available at a later date.

GMAT-Graduate Management Admissions Test

This is a 4-hour computer adaptive test. The candidate's performance on previous questions will determine which questions come next.

The GMAT exam is taken by applicants keen on joining a business school in the U.S. While it is true that most schools require applicants to have a minimum amount of work experience, the minimum is usually two years. However, more important than the length of experience is the quality of work experience—where a candidate worked, what his level of responsibility was and how he progressed through the ranks. GMAT tests the candidate's basic quantitative and verbal abilities and contains no business principles at all (except as a basis for problem solving or as reading comprehension passages).

Questions at the beginning of each section have a greater impact on the candidate's score than do those which come later in the section.

GMAT is one of the costliest exams—U.S.

50/- . It now appears that a few of the business schools in the U.S. (such as Stanford Graduate School of Business) have decided not to accept applicants because of such prohibitive costs which may scare off some of the potentially brightest candidates from B-Schools, they would allow applicants to submit scores from the GRE in place of scores from the GMAT.

"In recent years many B-Schools have started waiving the GMAT requirements for applicants to executive MBA programmes." GRE applications starting from July 2006, is accepted by U.S. \$ 160/- in India.

IELTS-International English Language Testing System

This is an exam jointly managed by the University of Cambridge ESOL Examination (University of Cambridge ESOL), British Council and IDP Education (International Development Programme). IELTS, Australia: IELTS assesses all four language skills: listening, reading, writing and speaking, conforming to the highest international standards of language assessment.

IELTS is recognized by universities and employers in a large number of countries including Australia, Canada, New Zealand, the U.K. and the U.S.A.

Anyone who is about to finish schooling and is above the age of 16 can sit for this

exam. People with higher educational level and/or experience can also attempt the test. Students planning on higher studies abroad, professionals, job seekers, research scholars and just about anyone connected with academic work can appear for the test.

There are four modules to the test covering all four aspects of a language: reading, writing, listening and speaking. The first three are taken in a single session with no breaks in between the tests. The speaking module alone may be taken on a day decided upon by the centre, but usually on a day very close to the other three modules. In the table given below, some details of the exam are given:

Modules Time Taken Some details of questions

Evaluation is on a 0-9 band scale, 9 being the highest a candidate can get. Results are made known within a fortnight from the actual date of the exam.

Unlike the rule in the past which required a 90-day gap between two test dates for anyone wanting to repeat the test, a candidate can now retake the test whenever he/she wants.

The tests are conducted at least twice a month and in peak seasons the frequency is increased.

For more details contact: ieltsindia.com

NO. 1

The new TOEFL iBT follows the format given below:

Section	Timing	No. of questions	Score Scale
Reading	60 to 100 mts.	36 to 60 (including time taken to read)	0 - 30
Listening	60 to 90 mts.	34 (including time taken to listen to passages)	0 - 30
Speaking	About 20 minutes	6 tasks	0-30
Writing	50 minutes	2 tasks	0 - 30
Total time taken: About 4 hrs.		Overall Score Scale	0 - 120

No. 2

The current GRE is valid till the summer of 2007 only.

	Current GRE	New GRE
1. Test format	Computer adaptive: the computer adapts to test-taker's performance	Computer-based linear exam: every test-taker receives the exam if taken on the same day.
2. Duration	2½ hours	4+ hours
3. Test dates/ Frequency	most weekdays and week-ends, all through the year	Approximately 30 fixed-dates per year
4. Method of Scoring	Verbal Score-200 to 800 points Quantative Score-200 to 800 points Analytical writing Assessment-0 to 6 points	Verbal Score - 110 to 150 points Quantative Score-110 to 150 points Analytical writing Assessment-0 to 6 points
5. Test Content	<p>a. Analytical Writing: 2 essays: One 30-minute argument Essay and one 45-minute issue essay</p> <p>b. Quantitative: 28 multiple-choice questions One 45-minute section</p> <p>c. Verbal: 30 multiple-choice questions One 30-minute section includes analogy and antonym questions</p>	<p>a. Analytical Writing: 2 essays-30 minutes each for the argument and issue based essays</p> <p>b. Quantitative: two 40 minute sections* - Quantative reasoning skills tested more thoroughly - fewer geometry, questions - more 'real-life' and data interpretation questions - new question formats - new on-screen calculator</p> <p>c. Verbal two 40-minute sections* - analogy and antonym questions eliminated - will include more critical reading passages - new question formats.</p>

* one section may be experimental

No. 3

GMAT at a Glance

1. Length of test	4 hours
2. When offered	Most week-days, year round
3. How to register	WWW.MBA.com
4. Test areas:	<p>a. Analytical Writing Assessment: 2 essay questions - 30 minutes per essay</p> <p>b. Quantitative: 37 multiple-choice questions - 75 minutes</p> <p>c. Verbal Section: 41 multiple-choice questions 75 minutes</p>

Modules	Time taken	some details of questions
Listening	30 min.	40 questions spread over 4 sections
Reading	60 min.	2,000-2,750 words covering two or three passages
Writing	60 min.	Two tasks are given Time spent: 20 min. for task 1 and 40 min. for task 2
Speaking	11-14 min.	Candidate has to speak on general topics as answers to questions. <i>More like a personal interview. Has also to speak for a minute or two on a given topic. Preparation time: one minute.</i>

Any Shortcuts to Learning English?

Nirmala Krishnaswamy, Chennai

The world had it coming for a long time. Most countries woke up to the fact, but while we in India had the 'advantage' of having had a head start in the mastering of English, a lot of the opportunities provided for the young were frittered away if only because of our obfuscated policies of language-learning in general, and English in particular. When exposed to two or even three languages in the first few years of schooling, if taught efficiently, a child learns all of it effortlessly. In the absence of this ideal, inefficiency in language-learning creeps in not only in the learning of English but in that of all other languages as well. This negativity is reinforced even later when it's time to concentrate on the maths-physics-chemistry-biology syndrome and every student is strait-jacketed into the science mode, and most students, and more so the parents, bend over backwards to somehow get a seat in an engineering or medical college. Students too play along and at the end of eight to ten semesters and in quite a few cases, several years later, an average engineering graduate is found working in English. Such

students are labeled as 'learning professionals' by the recruiters and one very important reason for this is found to be a far less than satisfactory competence in the communicative ability of the graduates.

It is at this point that along with the articulate, competent student a larger number of the less than proficient, call themselves for a variety of classes - my training course, for that matter - in order to shore up their command over English. It is a sad state both for the teacher and the taught. But, if you make up in three to six months what was left undone for eight or more years! It is, therefore, not unreasonable to expect in these classes to see the student uttering "do I improve my English?"

However, one must be realistic and realise that it is not just the student who has to be taught to do more in less time. The teaching discipline also has to be re-examined and can be reformed.

Reading, writing, listening and speaking, each of these four skills has to be practised and improved upon. The student has to be made to use the language in a variety of contexts and in a variety of ways. The teacher has to be made to use the language in a variety of ways and in a variety of contexts.

question asked is what can one read? Time being in short supply, one has to be practical. The following observations made may be of use to those who realize they have a potential to do better and all they lack is a guiding force and fillip to their attempts.

Read newspaper editorials every single day. There are three very good reasons why this is of great benefit.

First, the English is as it ought to be written.

Second, you, as a reader, are exposed to quite a few opinions, facts and figures. It is only when you are exposed to other people's ideas that you can form your own. An editorial certainly expresses some strong opinions.

Keep asking yourself constantly whether or not you agree with the editor. If you do, why do you think you feel the same way, and if not, why not? This way it fine tunes your own opinions. Third, there are lots of vocabulary items, words and phrases, which you can learn painlessly. These will slowly become part of your active vocabulary.

(A word of caution, though. There are newspapers and newspapers. Make sure you choose a newspaper of some standing and preferably one which is fairly balanced in its views).

Talking about vocabulary, do you learn words individually? One common query is: "Can we learn about ten words a day by choosing them from the dictionary?" This is a formula for disaster. A sound piece of advice would be not to learn words in isolation. Learn them always as collections. A collection is the 'habitual placing of a particular word, next to another word or words, or a group of words so placed. 'Collocation' itself is formed from the Latin 'collocare' which means 'placed together'.

An example will make it amply clear. Let us take the word 'avail' – one of the most ill-treated words. These days discounts being offered (*genuine or otherwise*) at the drop of

a hat, there are banners and advertisements put out which say 'avail 5% or 10% discount'. 'Avail' in this context ought to be used as 'avail oneself of something'. So, it is: Avail yourself of a 5% discount. However, 'avail' can also be used in the following manner' I tried very hard but to no avail (always used with a negative connotation).

Meeting new words is like being introduced to a stranger in a gathering. If you must know more about the person, a lot of effort, along with a certain amount of healthy curiosity, is required on your part.

How do we familiarize ourselves with a new word?

- See how it is spelt.
- Check out its pronunciation. Even common enough words such as 'draught' or 'honour' and 'honest' are mispronounced by many educated people.
- Find out what its part of speech is. The context will help you.
- Ask yourself if it can be converted to other parts of speech.

For eg: The word 'flop' has three meanings and can be used both as a noun and as a verb. As a verb, the meaning could be

- hang or swing loosely
- sit or lie down heavily and clumsily
- fail totally (informal)

As a noun,

- a heavy and clumsy fall
- a total failure

'Floppy' is an adjective with 'floppier' and 'floppiest' being the comparative and superlative degree forms. It means: tending to fall, not firm or rigid. It can be used as a noun too (plural, floppies): flexible removable magnetic disk used for sorting data. The adverbial form of the word is 'floppily' and 'floppiness' is another noun form. This is an exercise that a word should be put through so that, more than anything else, it has a better chance of sticking in the mind. It is

ke locating a place on a map. Memory recall gets stronger.

In all probability, a new word that you have made a mental note of, will reappear in your reading. Note the contexts in which the word is used. Reading is only a part of the exercise. You have to listen to how the language is spoken. Listen to BBC or the VOA as often as you can manage. Be choosy about the programmes (such as discussions or interviews) that you hear on television (Some are excellent examples of how not to speak!).

Maintain a notebook or a file with individual pages dedicated to 'specialist' words such as those ending in -cide, mania and -phobia (for eg. Matricide, genocide, agoraphobia, dipsomania, acrophobia), specialist doctors, subject names and so on. It would be a good idea to have synonyms grouped together. For instance, you might

have a list such as commotion, hubbub, confusion, chaos, melee, pandemonium, mayhem, tumult, bedlam, anarchy - put down in the order of severity.

Phrasal verbs (verb + preposition and/or adverbial particle combination) are an integral part of the language and you have to be confident of their usage. Indians, as a whole, often use prepositions where there is no need for one (eg. Cope up; We cope with problems and not 'cope up' with them).

Word order is another important area which would need your attention. All of this is possible with strict discipline in study, dedication and sincerity of purpose.

Reading, by far, is your best teacher. That, and a confidence in yourself is perhaps the best formula for considerable success in your attempt to get a better command over the language.

Errors in the Use of English

Jagan Nath, New Delhi

The principal of a post-graduate college in New Delhi once asked me: 'Is Mr. Harish your cousin brother?' I was aghast at her question. Since I had been very friendly and frank with her, I told her to say only cousin. She accepted my advice gracefully. I wondered when a learned person can commit such an error, what about ordinary humans and students?

Students must be told to avoid such an error. Try always to chop off the dead wood. Never say new recruit, say only recruit. Don't use the expression 'past history'. Only 'history' will do. History is collection of past events. And avoid saying 'final conclusion', say only 'conclusion'.

In the following examples, the words in inverted commas should be omitted; 'advanced' prediction, 'fatal' killing, 'definitely' decided, 'the other' alternative, for 'a period of' two weeks, 'dead' body.

Clear Writing

According to the Asian Reporter, a magazine on reporting techniques, published in Manila, Philippines, clear writing does not come about by chance. It is the result of clear thinking. Words the reader is familiar with and you can prove the chances of your getting across. Familiar words can be forceful. You can follow you easier if you give them words. Here is a list of com-

Complex	Common
monumental	big
terminate	end
witness	see
purchase	buy
utilise	use
majority	most
reside	live
procure	get
proceed	go
contribute	give
request	ask
endeavour	try
summon	call
category	class
prevaricate	lie
incarcerate	jail
inaugurate	start
facilitate	help
inundate	flood

No to deadwood

Omit verbal deadwood, says the Reporter. There is no reason to call a spade "a long-handled instrument for turning earth in a garden". Here are some examples of verbal deadwood:

Instead of	use these words
for the reason that	because
at the present time	now
tendered his resignation	resigned
affixed his signature	signed
told his listeners	said
united in holy matrimony	married
used for fuel purposes	fuelled
held a conference	met
in the immediate vicinity	near
was able to make his escape	escaped

In fact, incompetent teachers and some private coaching institutions are responsible for the present state of affairs. Sample a printed handbill tucked away in morning newspapers, courtesy of the hawkker: "You feel weak in English? You don't know how to

give answer to a question or write a simple application/paragraph or draft a letter? You have a poor vocabulary? The remedy suggested is: 'Improve your weakness' under the guidance of our highly qualified, experienced teaching staff."

There has been a mushroom growth of coaching schools which claim to develop your writing and speaking skills. These "shops" sell "spurious" goods. How many of these schools have the necessary scholarly atmosphere and how many have well-qualified staff? Sample a board outside one such study shop; "Tutions offered to students from Class Vth to Class Xth. Contact Principal between 10 to 11 a.m."

Now these few words contain howlers. The common man and even class X or XII students are ignorant of the correct spelling of "tuition". The word is even mis-spelt by teachers of English in public schools. And with Roman expressions "th" is never used. Say only Class V and X. If you want to use "th" it should be 5th, or 10th.

Howlers galore

I recall a meeting I had recently with a gentleman who claimed to be a first-class M.A. in English with 65 percent marks. This was the shock of my life. For, a first-class in M.A. English is rare, and 65 per cent is incredible. If at all a first class M.A. in English is produced once in a blue moon by a good university, the candidate will have only 60 per cent marks. He told me he was doing Ph.D. and promised to write to me when he went home in Jabalpur, Madhya Pradesh.

As promised, he wrote. There were four mistakes in his hand-written letter. The first sentence contained incorrect spelling of the word "received". He wrote "recieved". He also enclosed his resume, which was horrible. At the top it was written bio-data. Now bio-data is Indian English. No Englishman will ever use this expression. They say resume or CV (cur-

um vitae). In the resume, he freely used words Class Xth and Class XIIth. I edited the resume, and sent it back to him. I wrote him that writing Xth was a silly mistake which should be avoided. Within three weeks, he sent me a revised copy of the resume, and Class Xth and Class XII were used. He enclosed the university marks sheet which also had Xth and XIIth.

The common mistake committed today is: visitors can see the Principal between 9 to 10 a.m. When the word "between" is used, we should say between 9 and 10 a.m. Or visitors can see the Principal from 9 to 10 a.m.

Scholars, newspapers and prestigious magazines say "comprise of". Which is wrong. We can say: this book consists of 100 pages, this book comprises 100 pages. Never use "comprise" with comprise.

rs and Ms

Never use, or misuse, the word "Mrs". It's wrong to say Mrs. Lila Wati, Mrs. Shakuntla Devi or Mrs. Srilatha. "Mrs" is used with the name of a woman's husband. For instance, we can say Mrs. Gita Sehgal, Mrs. Sehgal but we cannot say Mrs. Gita. In a public school which I visited a number of times, this announcement was often heard: Mrs. Kusum is requested to go to class IV, and Mrs. Kiran is assigned to class X in the next period. A visitor from the West can be hoodwinked when she sees the board saying Mrs. Lila Wati, Mrs. Shakuntla Devi or Mrs. Srilatha. She will think that Wati, Devi and Srilatha are the names of the women's husbands. When N.T. Rama Rao, film star-turned Chief Minister of Andhra Pradesh, passed away, most of the newspapers referred to his wife as Mrs. Lakshmi Parvathi. It should have been Ms. Lakshmi Parvathi. The word "Ms" can be used with both married and unmarried women. The pronunciation is "Mizz".

"Dr. (Mrs) Usha Malhotra". We generally see boards of this kind. The English wife of

my English boss laughed at it. She described it as Indian English. She explained that in England the patients never bother to think of the marital status of a doctor. They are concerned with the skill and talent of the doctor.

Another common error witnessed today is 'apartment' instead of "apartment" to describe a block of flats. It should be apartments.

Unfortunately, the standard of English in schools is pathetic. Not to speak of government schools, where English teaching begins from class V, even public schools, where English is taught right from Nursery and KG, suffer from this malady. Students right up to the senior secondary level lack the basic rules of the English language. One is surprised to see senior students writing: "three battles were righted in Panipat" and "three birds were caught by the hunter". Such students are penalised when they take the Board examination. What is the remedy?

The students have not learnt the three forms of the verb and adjective. Even ordinary singular-plurals are not known to them. They write "childrens" and "sheeps". Some of them do not even know the difference between "there" and "their", "it's and its", "lose and loose", "advice and advise", "practice and practise".

Basic grammar

A senior English teacher explained: "The students refuse to go back to classes V or VI grammar books to learn the three forms of verb. They consider it below their dignity to consult a junior book".

Indeed, the student today is looking for a shortcut to success. He does not bother about the fundamentals. His only aim is to score pass marks, gra
As a result, senior
write even a si
Principal.

I recall a meeting with a teacher, who had been working in a missionary school and taught junior classes all subjects. We met every morning at the bus stop. She had to change two buses to reach her school. She was in search of a job near home.

One day she visited my home. She told me that she had applied for the post of an English teacher advertised by a public school nearby. She knew that the Principal of the school was a friend of mine. She wanted my help.

I said to her: "To be very frank, we have met only at the bus stop. I don't know where you stand. For my satisfaction, if you could just write a simple leave application to the Principal, that would do. Please pardon me for asking you such a simple question".

When she wrote the application, it was horrible. She deserved zero out of 10. I told her there was no need to be disillusioned. "I would send you to an experienced teacher to brush up your knowledge till the interview and you will find yourself full of confidence". Neither she went to my friend nor appeared for the interview.

The English language has taken a long time to march from Chaucer to H.G. Wells, Bernard Shaw and nearer home Gandhi, Nehru, R.K. Narayan, etc. Some of them, particularly Gandhi and Nehru, wrote in their own style, lengthy sentences using bombastic words.

Indian Newspapers

Newspapers in India are fond of presenting articles or news items containing lengthy sentences. A long sentence is not easily understood and is sometimes confusing. On the other hand, pick up any English newspaper published in England or the USA, you will find short sentences and short paragraphs in simple language. They believe that simple words set in a smooth sentence. We enjoy this language for its beauty and clarity.

A senior journalist stressed the need of using a simple and familiar language while writing. He said: "News is for the general reader, who can be anyone from the village barber to the town Mayor. It must, therefore, be told in a language that is simple, forthright but decent and familiar. One must write to express, not impress."

Drawing with words

Writing is just drawing with words. A writer should be able to put in the reader's mind a reproduction of the picture he sees in his own. To be able to do that, he must use specific and concrete words. He should be positive while writing. Don't say he did not win, only say he lost. Never say did not succeed/was not successful, say only failed. Instead of "did not pay attention to", say "ignored". "Did not accept" should be "rejected". The shorter an expression, the clearer it is.

Avoid using idioms, which are expressions peculiar to a language. They are derived from native experience. Idioms will, therefore, spoil English for non-natives like us. They emphasise their foreignness and diminish their universal appeal. Let's take our English straight without using such expressions as the "apple of one's eye" or "he has money to burn" or "he lost face". Respectively we can say "favourite, rich and shamed".

Whatever the standard of English in Indian schools, colleges, and civil services, the lure of the language still persists. As a lover of English remarks, "Though British imperialism ended more than five decades ago, British linguistic imperialism still continues without a murmur of protest by patriotic Indians".

P.S.: Candidates for the post of an English teacher in a public school in New Delhi, in a written test, were asked to change the gender of ram. Six of them wrote: "Sita"! ■

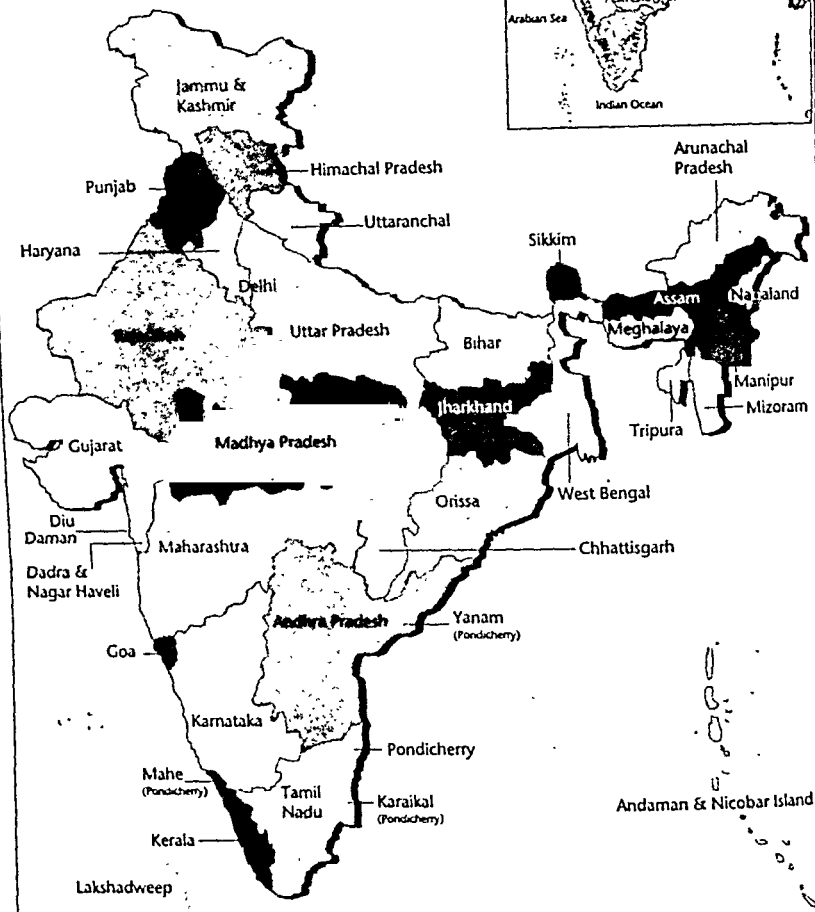
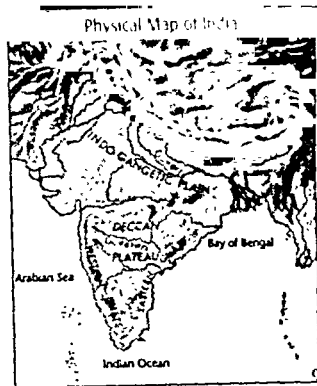
INDIA

PART

08

INDIA

States and Union Territories



Note: The boundaries of India are neither accurate nor true to scale.

The Country

India is located between 8°4' and 37°6' north latitude and 68°7' and 97°25' east longitude. India measures 3214 km from north to south and 2933 km from east to west with a total land area of 3,287,263 sq. km. India is the 7th largest country in the world. It has a land frontier of 15,200 km and a coastline of 7516.5 km. Andaman and Nicobar islands in the Bay of Bengal and Lakshadweep in the Arabian Sea are parts of India. The country shares its political borders with Pakistan and Afghanistan on the west and Bangladesh and Burma on the east. The northern boundary is made up of the China, Nepal and Bhutan. India is separated from Sri Lanka by a narrow channel of sea formed by the Palk Strait and the Gulf of Mannar.

Physical Regions

The mainland, in geographical terms is broadly divided into a) the great mountains, b) the river plains, c) the desert and d) the peninsula.

Mountain Ranges

The mountains extend for more than 1000 km. They are seven.

1. the Himalayas,
2. the Patkai and other ranges bordering India in the north and north east,
3. the Vindhyas, which separate the Indo-Gangetic plain from the Deccan Plateau,
4. the Satpura
5. the Aravalli
6. the Sahyadri, which covers the eastern fringe of the West Coast plains and
7. the Eastern Ghats, irregularly scattered on the East Coast and forming the boundary of the East Coast plains.

Important Mountain Peaks: Height in meter above Mean Sea Level:

(1) K2*	8,611
(2) Kanchenjunga	8,598
(3) Nanga Parbat	8,126
(4) Gasher Brum*	8,068
(5) Broad Peak*	8,047
(6) Disteghil Sar*	7,885
(7) Masher Brum E	7,821
(8) Nanda Devi	7,817
(9) Masher Brum W*	7,806
(10) Rakaposhi*	7,788
(11) Kamet	7,756
(12) Saser Kangri	7,672
(13) Skyang Kangri*	7,544
(14) Sia Kangri*	7,422
(15) Chaukhamba (Badrinath Peak)	7,138
(16) Trisul West	7,138
(17) Nunkun	7,135
(18) Pauhunri	7,125
(19) Kangto	7,090
(20) Dunagiri	7,066

*in Pak-occupied territory

Watersheds

There are mainly three watersheds.

1. Himalayan range with its Karakoram branch in the north,
2. Vindhyan and Satpura ranges in Central India, and
3. Sahyadri or Western Ghats on the west coast.

Rivers and the Plains

The main rivers of the Himalayan group are the Indus, the Ganga and the Brahmaputra. These rivers are both snow-fed and rain-fed and have therefore continuous flow through-

India: Social Indicators

Population (million-2001 Census)	1028.737
Growth Rate	1980-2001 1.9%
	2002-2015 (Projected) 1.2%
Density (per sq.km)	324
Sex Ratio (Females per 1000 males)	933
	or Female population 48.1%
Literacy Rate	64.84%
	(Male: 75.85%, Female: 54.16%, Rural: 59.40%, Urban: 80.30%)
Life Expectancy at birth	Male 63.9
	Female 66.9
Infant-Mortality (per 1000 live births) 2002	63
Crude birth rate (per 1000 people)	25
Crude death rate (per 1000 people)	8.1
National Poverty Ratio (Projection for 2007)	19.3%
	Rural 21.1%
	Urban 15.1%
Access to drinking water (of population)	90%
Access to Sanitation facilities	28%
Health Expenditure (of GDP)	4.9%
	Private (of total health exp.-2000) 82%
	Public (of total health exp.-2000) 18%
Expenditure on Education (2003-04)	3.74%
Total Labour Force (2001)	460 million
	Projected (2010) 543 million
Growth rate per annum	2%
Labour Force Women	32%
Total Employment (March 2000)	397 million
Growth Rate	(1983-94) 2.04%
	(1994-2000) 0.98%
Organised Sector Employment	
	Public Sector 2003 27 million
	Private Sector 8.64 million
	Total 27.96 million

Source: Economic Survey, Govt. of India 2004-05 and World Development Report, World Bank 2004

out the year. Himalayan rivers discharge about 70% of their inflow into the sea. This includes about 5% from central Indian rivers. They join the Ganga and drain into the Bay of Bengal.

The plains of Ganga and Indus runs for about 2400km with a width ranging from 240 to 320km. They are formed in the river basins of Ganga-Yamunā, Brahmaputra, Indus, Godavari, Kaveri, etc.

Length of some important rivers (in kms):

(1) Indus	2,900
(2) Brahmaputra	2,900
(3) Ganga	2,510
(4) Godavari	1,450
(5) Narmada	1,290
(6) Krishna	1,290
(7) Mahanadi	890
(8) Kaveri	760

ert

he Desert region is located in the west- and north western part of the country. It be divided into two parts—the great ert and the little desert. The great desert ends from the edge of the Rann of Kuchch yond the Luni river northward. The whole Rajasthan-Sind Frontier runs through this. e little desert extends from the Luni be- een Jaisalmer and Jodhpur up to northern astes (dry and rockyland).

eninsula

Peninsula is marked by elevated landmass ith height ranging from 460 to 1220m. The eccan and the Southern part surrounded by ater on three sides make the peninsula. It is anked by Eastern Ghats on the east and Western Ghat on the west. Between the Ghats nd the Sea lies the narrow coastal belt.

limate

Traditionally, seasons in India is divided nto six—Vasanta (Mar-Apr), Grishma (May- un), Varsha (Jul-Aug), Sharada (Sept-Oct), emanta (Nov-Dec) and Shishira (Jan-Feb). n broad terms, India experiences 3 main easons, such as (a) Winter - Dec to March, (b) Summer - Apr to May and (c) Monsoon South West Jun to Sept, and NE (retreating W monsoon) - Oct to Nov. Between the

two main seasons are Spring and Autumn.

India receives 86% of the rain during SW monsoon. NE monsoon is a very restricted one - experienced in Tamil Nadu, Kerala and sometimes AP and Karnataka.

Natural Vegetation

India has 6 types of forests. (a) Evergreen (Tropical Forests) - is found in areas with 200cm to 300cm rainfall; av. annual temp. 20°C to 27°C; av. annual humidity >80% (b) Deciduous (Monsoon Forests) - found in places with lesser rainfall between 150 to 200 cm; mean annual temp between 24°C and 28°C; humidity 75% (c) Dry Forest - are found where rainfall is scanty between 75 to 100 cm; mean annual temp 23°C to 29°C; humidity 50 to 60% (d) Hill Forests are common in South India and Himalayas (e) Tidal Forests (Mangrove) are found in the coastal submerged plains of Ganges (Sundarbans), Maharastra, Godavari and Kerala and (f) Grasslands (Hilly-Himalaya and Deccan hills above 100m, lowland as in Punjab, Haryana, UP, Bihar, NW Assam and riverine grasslands - found along rivers).

Agriculture

India has two crop seasons. (a) Kharif: Rice, Jowar, Bajra, Ragi, Maize, Cotton, Jute. Sow- ing - Jun/Jul, Harvest - Sep/Oct. (b) Rabi: Wheat, Barley, Peas, Rapeseed, Mustard, Gram. Sow- ing - Oct/Dec, Harvest - Apr/May.

The National Insignia

National Emblem

The state emblem of India is an adapta- tion from the Samath Lion, capital of Asoka the Emperor as preserved in the Samath Museum. The Government adopted the em- ble'm on 26th January, 1950, the day when

India became a Republic. In the original of Samath Capital, there are four lions, stand- ing back to back, mounted on an abacus with a frieze carrying sculpture in high relief of an elephant, a galloping horse, a bull and a lion separated by intervening wheels

(chakras) over a bell-shaped lotus. Carved out of a single block of polished sandstone, the Capital is crowned by the Wheel of the Law (Dharma Chakra).

In the state emblem adopted by the Government only three lions are visible, the fourth being hidden from view. The wheel appears in relief in the centre of the abacus with a bull on the right and a horse on the left and the outlines of the other wheels on the extreme right and left. The bell-shaped lotus has been omitted. The words, *Satyameva Jayate* from the Mundaka Upanishad meaning "Truth alone triumphs", are inscribed below the abacus in Devanagari script.

The National Flag

The National Flag is a horizontal tri-colour of deep saffron (Kesari) (representing 'courage and sacrifice') at the top, white ('peace and truth') in the middle and dark green ('faith and chivalry') at the bottom in equal proportion. The ratio of the width of the flag to its length is two to three. In the centre of white band is a wheel, in navy blue. Its design is that of the wheel (Chakra) which appears on the abacus of the Sarnath Lion Capital of Asoka. Its diameter approximates the width of the white band. It has 24 spokes.

The design of the National Flag was adopted by the Constituent Assembly of India on 22nd July, 1947. Its use and display are regulated by a code.

National Anthem

Rabindranath Tagore's song *Jana-gana-mana* was adopted by the Constituent Assembly as the National Anthem of India on 24th Jan. 1950 and gave *Vande Mataram* the national song equal honour. It was first sung on 27 Dec. 1911 at the Calcutta session of the INC. The first stanza (out of 5 stanzas) of the song forms the National

Anthem. Playing time of the full version of the national anthem is approximately 52 seconds. A shorter version consisting of the first and last lines of the stanza takes 20 seconds to play and it is played only on certain occasions.

*Jana-gana-mana-adhinayaka jaya he
Bharata-bhagya-vidhata.*

*Punjaba-Sindhu-Gujarata-Maratha-
Dravida-Utkala-Banga*

*Vindhya-Himachala-Yamuna-Ganga
Uchchala-Jaladhi-taranga*

Tava Subha name jage,

Tava subha asisa mange,

Gahe tava jaya-gatha,

*Jana-gana-mangala-dayaka, jaya he
Bharata-bhagya-vidhata.*

Jaya he, jaya he, jaya he,

Jaya jaya jaya, jaya he.

The following is Tagore's English rendering of the stanza:

*Thou art the ruler of the minds of all people,
Dispenser of India's destiny.*

*Thy name rouses the hearts of the Punjab,
Sind, Gujarat and Maratha,*

Of the Dravid and Orissa and Bengal.

*It echoes in the hills of the Vindhyas and
Himalayas, mingles in the music of the
Jamuna and the Ganges and is chanted by
the waves of the Indian Sea.*

They pray for the blessings and sing thy praise.

The saving of all people waits in thy hand,

*Thou dispenser of India's destiny, Victory,
victory, victory to thee.*

National Song

The song *Vande Mataram* composed by Bankim-chandra Chatterji has an equal status with *Jana-gana-mana*. The first political occasion when it was sung was the 1896 session of the INC.

*Vande Mataram,
Sujalam, suphalam, malayaja shitalam,
Shasyashyamalam, Mataram!
Shubhrajyotsna pulakitayaminim,*

*Phullakusumita drumadala shobhinim,
Sahasinim sumadhura bhashinim, Sukadam
varadam, Mataram!*

English translation of the stanza rendered
by Sri Aurobindo (in Sri Aurobindo Birth
Centenary Library Popular Edition 1972, vol.
8), is

*I bow to thee, Mother,
richly-watered, richly-fruited,
cool with the winds of the south,
dark with the crops of the harvests,
The Mother!*

*Her nights rejoicing in the glory of the
moonlight,*

*Her lands clothed beautifully with her trees
in flowering bloom, sweet of laughter, sweet
speech,*

The Mother, giver of boons, giver of bliss.

National Calendar

At the time of independence, the Govt. of
India followed the Gregorian calendar based
on the Christian era.

The National Government adopted the
recommendation of the Calendar Reform
Committee that the Saka era be adopted as
the basis of the National Calendar. The Saka
year has the normal 365 days and begins
with Chaitra as its first month. The days of
the Saka calendar have a permanent corre-
spondence with the dates of the Gregorian

Calendar, Chaitra 1 falling on March 22 in a
normal year and on March 21 in a Leap Year.
The National Calendar commenced on
Chaitra 1 Saka, 1879 corresponding to March
22, 1957 A.D.

The months of the National Calendar,
with their days and the dates of the Gregorian
Calendar corresponding to the first day of
the Saka month are given below:

Saka	Gregorian
1 Chaitra 30/31 days	March 22/21
1 Vaishaka 31	April 21
1 Jyaishta 31	May 22
1 Asadha 31	June 22
1 Sravana 31	July 23
1 Bhadra 31	Aug. 23
1 Asvina 30	Sept. 23
1 Kartika 30	Oct. 23
1 Margasira 30	Nov. 22
1 Pausa 30	Dec. 22
1 Magha 30	Jan. 21
1 Phalguna 30	Feb. 20

Indian Standard Time (IST)

India has only one standard time. India is
5.5 hours ahead of GMT/UTC, 4.5 hours
behind Australian Eastern Standard Time
and 10.5 hours ahead of American Eastern
Standard Time.

Population

Populationwise, India is second in the
world. On May 11, 2000 India's popu-
lation reached the one billion mark. The
population increased to 1,027 million in
March, 2001 (531.3 m. males and 495.7 m.
females). India accounts for a meagre 2.4%

of the world surface area of 135.79 million
sq. km. but it supports 16.7% of the world
population. It is estimated that at the present
rate of growth (1.93% during 1991-2001) In-
dia will overtake China by 2050. Look at the
growth of population from 1901 to 2001.

Population Over a Century

Years	Population
1901	23,83,96,327
1911	25,20,93,390
1921	25,13,21,213
1931	27,89,77,238
1941	31,86,60,580
1951	36,10,88,090
1961	43,92,34,771
1971	54,81,59,652
1981	68,33,29,097
1991	84,63,87,888
2001	1,02,70,15,247

Source: Census of India, 2001.

States and Union Territories by Population

State/Union Territory	Per Cent to total population of India	2001	1991
Uttar Pradesh		16.17	15.60
Maharashtra		9.42	9.33
Bihar		8.07	7.62
West Bengal		7.81	8.04
Andhra Pradesh		7.37	7.86
Tamil Nadu		6.05	6.59
Madhya Pradesh		5.88	5.74
Rajasthan		5.50	5.20
Karnataka		5.14	5.31
Gujarat		4.93	4.88
Orissa		3.57	3.74
Kerala		3.10	3.44
Jharkhand		.62	2.58
Assam		2.59	2.64
Punjab		2.37	2.40
Haryana		2.05	1.95
Chhattisgarh		2.03	2.08
Delhi		1.34	1.11
Jammu & Kashmir		0.98	0.92
Uttaranchal		0.83	0.84
Himachal Pradesh		0.59	0.61
Tripura		0.31	0.33
Manipur		0.23	0.23
Meghalaya		0.22	0.21
Nagaland		0.19	0.14
Goa		0.13	0.14
Arunachal Pradesh		0.11	0.10
Pondicherry		0.09	0.10
Chandigarh		0.09	0.08
Mizoram		0.09	0.08
Sikkim		0.05	0.05

Andaman & Nicobar	0.03	0.03
Dadra & Nagar Haveli	0.02	0.02
Daman & Diu	0.02	0.01
Lakshadweep	0.01	0.01

Source: Census of India, 2001

Rural and Urban Population 1901-2001

Census Year	Popu lation(m.) Rural	Percentage of (m.) total population Urban	Rural	Urban
1901	213	26	89.2	10.8
1911	226	26	89.7	10.3
1921	223	28	88.8	11.2
1931	246	33	88.0	12.0
1941	275	44	86.1	13.9
1951	299	62	82.7	17.3
1961	360	79	82.0	18.0
1971	439	109	80.1	19.9
1981	524	159	76.7	23.3
1991	629	218	74.3	25.7
2001	741.7	285.4	72.22	27.78

Cities/Urban Agglomerations with over a million people

** Urban Agglomerations /City	Population
01 Greater Mumbai	16,368,084
02 Kolkata	13,216,546
03 Delhi	12,791,458
04 Chennai	6,424,624
05 Bangalore	5,686,844
06 Hyderabad	5,533,640
07 Ahmedabad	4,519,278
08 Pune	3,755,525
09 Surat	2,811,466
10 Kanpur	2,690,486
11 Jaipur*	2,324,319
12 Lucknow	2,266,933
13 Nagpur	2,122,965
14 Patna	1,707,429
15 Indore	1,639,044
16 Vadodara	1,492,398
17 Bhopal	1,454,830
18 Coimbatore	1,446,034
19 Ludhiana*	1,395,053
20 Kochi	1,355,406
21 Visakhapatnam	1,329,472
22 Agra	1,321,410
23 Varanasi	1,211,749
24 Madurai	1,194,665
25 Meerut	1,167,399
26 Nashik	1,152,048

Jabalpur	1,117,200
Jamshedpur	1,101,804
Asansol	1,090,171
Dhanbad	1,064,357
Faridabad*	1,054,981
Allahabad	1,049,579
Amritsar	1,011,327
Vijayawada	1,011,152
Rajkot	1,002,160

Total 107,881,836

Municipal Corporation **Rank in 2001
Source: Census of India, 2001

Sex Ratio: 1901-2001

Years	Sex Ratio Females per 1,000 males
1901	972
1911	964
1921	955

1931	950
1941	945
1951	946
1961	941
1971	930
1981	934
1991	927
2001	933

Source: Census of India, 2001

Literacy Rate: 1951-2001

Years	Persons	Males	Females
1951	18.33	27.16	8.86
1961	28.30	40.40	15.35
1971	34.45	45.96	21.97
1981	43.57	56.38	29.76
1991	52.21	64.13	39.29
2001	65.38	75.85	54.16

Source: Census of India, 2001

The People of India

Indian population is said to be the melting pot of various races. Few, if any, can claim to belong to any particular stock.

Races (as per classical pattern): According to Dr. B. S. Guha, the population of India is derived from 6 main ethnic groups: 1. Negrito; 2. Proto-Australoids or Austriacs; 3. Mongoloids; 4. Mediterranean or Dravidian; 5. West-Asian Brachycephals and; 6. Nordic Aryans.

The Major Tribes who inhabit in India are Abors-Arunachal Pradesh, Assam; Adi, Apatani-Arunachal Pradesh; Angami, Ao-Nagaland; Badagas-Tamil Nadu; Baiga-MP, Rajasthan, Gujarat; Bhils-MP, Gujarat, Rajasthan; Bhotias-UP (Garhwal and Kumaon); Bhutias-Sikkim; Birhor-Bihar; Bodos-Assam; Chenchus-AP, Orissa; Chutias-Assam; Dangs-Gujarat; Gaddis-HP; Garos-Meghalaya; Gonds-MP, Bihar, Orissa, AP; Great

Andamanese-Andaman Is.; Irulas-Tamil Nadu; Jaintias-Meghalaya; Jarawas-Little Andamans; Kanis-Kerala; Kacharis, Karbi-Assam; Khampti-Arunachal Pradesh; Khasis-Meghalaya, Assam; Khonds-Orissa; Kol-MP; Kotas-Tamil Nadu; Kuki-Manipur; Lepchas or Rongpa-Sikkim; Lushais-Tripura; Meiteis-Manipur, Nagaland; Mina-Rajasthan; Miri-Arunachal Pradesh; Mishings-Assam; Murias-MP; Mikirs-Assam; Mundas-Bihar; Oarons-Bihar, Orissa; Onges-Little Andamans; Rabhas-Assam; Rengma-Nagaland; Santhals-W. Bengal, Bihar; Sema-Nagaland; Sentineles-Andaman & Nicobar Is.; Shompens-Great Nicobar Is.; Tagins-Arunachal Pradesh; Todas-Tamil Nadu; Uralis-Kerala; Zeliang-Nagaland.

Scheduled Castes & Tribes There are 13.82 crores people belonging to the Scheduled Castes in the country. This constitutes

Religions of India

Religious group	1971		1981		1991		2001	
	Number (m.)	Per cent	Number (m.)	Per cent	Number (m.)	Per cent	Number (m.)	Per cent
Hindus	453.4	82.7	549.7	82.6	672.6	82.41	827.5	80.44
Muslims	61.4	11.2	75.6	11.4	95.2	11.67	138.2	13.42
Christians	14.3	2.6	16.2	2.4	18.9	2.32	24.1	2.33
Sikhs	10.4	1.9	13.1	2.0	16.3	1.99	19.2	1.84
Buddhists	3.9	0.7	4.7	0.7	6.3	0.77	7.9	0.68
Jains	2.6	0.5	3.2	0.5	3.4	0.41	4.2	0.38
Others	2.2	0.4	2.8	0.4	3.5	0.43	7.3	0.65
Total	548.2	100.0	665.3	100.0	816.2	100.0	1028.4	100.0

16.48% of the country's total population. The States of UP, West Bengal, Bihar, Tamil Nadu and Andhra Pradesh account for more than 50% of the SC population, with UP and West Bengal having more than 20% of its population from the SCs. Members of the SC earn their livelihood through their own

labour, either on land belonging to others or in occupations like scavenging, flaying and tanning of leather. More than 3 quarters of the SC workers are engaged in primary occupation and the proportion of those engaged in the tertiary sector is nearly half the national average. In the field of literacy,

Languages of India*- Number of Speakers

Language	Persons who have written the language as their mother tongue			Percentage to total population		
	1971	1981	1991	1971	1981	1991
Hindi	20,85,14,005	26,45,14,117	33,72,72,114	38.04	38.71	39.85
Bengali	4,47,92,312	5,12,98,319	6,95,95,738	8.17	7.51	8.22
Telugu	4,47,56,923	5,06,24,611	6,60,17,615	8.16	7.41	7.80
Marathi	4,17,65,190	4,94,52,922	6,24,81,681	7.62	7.24	7.38
Tamil	3,76,90,106+	N.A.	5,30,06,368	6.88	N.A.	6.26
Urdu	2,86,20,895	3,49,41,435	4,34,06,932	5.22	5.11	5.13
Gujarati	2,58,65,012	3,30,63,267	4,06,73,814	4.72	4.84	4.81
Kannada	2,17,10,649	2,56,97,146	3,27,53,676	3.96	3.76	3.87
Malayalam	2,19,38,760	2,57,00,705	3,03,77,176	4.00	3.76	3.59
Oriya	1,98,63,198	2,30,21,528	2,80,61,313	3.62	3.37	3.32
Punjabi	1,41,08,443	1,96,11,199	2,33,78,744	2.57	2.87	2.76
Assamese	89,59,558	N.A.	1,30,79,696	1.63	N.A.	1.55
Sindhi	16,76,875	20,44,389	21,22,848	0.31	0.30	0.25
Nepali	14,19,835	13,60,636	20,76,645	0.26	0.20	0.25
Konkani	15,08,432	15,70,108	17,60,607	0.28	0.23	0.21
Manipuri	7,91,714	9,01,407	12,70,216	0.14	0.13	0.15
Kashmiri	24,95,487	31,76,975	N.A.	0.46	0.46	N.A.
Sanskrit	2,212	6,106	49,736	N	N	0.01

N.A.: Not available; N: Negligible * Figures for 18 of the 22 Languages. Speakers of Bodo: 12,21,881 (1991 census); Dogri: 21,05,000 (1997 IMA); Santhali: 52,16,325 (1991 census); Maithili: 2,20,00,000 (1981 census).

as against the national average of 52%, the literacy rate of SCs is around 37%. Among the SC women, more than three quarters are illiterate. Moreover, the drop out rate in formal education is very high. Such factors put the community at disadvantage.

The population of Scheduled Tribes were 6.78 crore (91 Census) constituting 8.08% of the country's total population. Their literacy is just 29.60%. Literacy among the women is 18.19% compared to the national average of 39.29%.

Indian Languages

Although Hindi is the national language, India is believed to have 1652 mother tongues of which 33 are spoken by people numbering over a lakh. The officially recognised lan-

guages are 22. In fact, English is widely spoken and perhaps the link between North and South India.

Schedule Languages: A schedule—the 8th Schedule—was added to the Constitution to indicate all regional languages statutorily recognised. The Schedule originally contained 14 languages as follows:

(1) Assamese; (2) Bengali; (3) Gujarati; (4) Hindi; (5) Kannada; (6) Kashmiri; (7) Malayalam; (8) Marathi; (9) Oriya; (10) Punjabi; (11) Sanskrit; (12) Tamil; (13) Telugu; (14) Urdu.

Sindhi was added in 1962. By the 71st Amendment to the Constitution, Konkani, Manipuri and Nepali were added to the list in 1992.

In 2003, four more languages, were added: Bodo, Dogri, Maithili and Santhali. (92nd Amendment)

THE CONSTITUTION

The Constitution of India was drawn up by a Constituent Assembly (established in accordance with the Cabinet Mission Plan) initially summoned on Dec. 9, 1946, under the presidentship of Sachidananda Sinha, for undivided India. On July 1, 1947, the British parliament passed the 'Indian Independence Act', to divide India into India and Pakistan. With the partition of India the representatives of East Bengal, West Punjab, Sind and Baluchistan, N-W Frontier Province and the Sylhet Dist. of Assam, which joined Pakistan, ceased to be members of the Constituent Assembly. On August 14, 1947, the Constituent Assembly met again as the Sovereign Constituent Assembly for the Dominion of India under the presidentship of Sachidananda Sinha. On the demise of Sinha,

Dr. Rajendra Prasad became the President of the Assembly. A draft Constitution was published in February 1948. 284 out of 299 members appended their signature to the Constitution and finally adopted it on 26th Nov 1949. It came into effect on 26th Jan 1950.

Draft Constitution Drafting Committee

The work started with the presentation of the 'Objective Resolution' (the underlying ideology/philosophy) moved by Pandit Jawaharlal Nehru was adopted on Jan. 22, 1947. The committee for scrutinising the draft constitution and suggesting amendments was formed on August 29, 1947. The draft was read by Feb. 1948. The Constituent Assembly met three times to read the draft clause-by-clause in Nov. 1948, Oct. 1949 and Nov. 1949. After the

third reading, it was signed by the President and adopted on Nov. 26, 1949. In fact, a Committee on Rules of Procedure was in place as early as Dec. 1946. Chairman: Dr. B.R. Ambedkar.

Members: Alladi Krishnaswami Ayyar, N. Gopalaswami Ayyangar, Dr.K.M. Munshi, Syed Md. Saadulla, B.L. Mitter (was replaced by N. Madhava Rao) and D.P. Khaitan (was replaced by T.T. Krishnamachari).

The Indian Constitution closely follows the British Parliamentary model but differs from it in one important respect that is, the Constitution is supreme, not Parliament. So the Indian courts are vested with the authority to adjudicate on the constitutionality of any law passed by Parliament (ref. to 42nd Constitution Amendment Act).

The Constitution consists of the following: 1. The Preamble; 2. Parts I to XXII covering Articles 1 to 395; 3. Schedules 1 to 12 and 4. An Appendix. Part IX-The panchayats and Schedule XI (Article 243-G) have been incorporated under 73rd Constitution Amendment Act, 1992.

Amendments since 2000

80. (2000) deals with an alternative scheme for sharing taxes between the Union and the states.

81. (2000) provides that the unfilled vacancies of a year reserved for SC/ST kept for being filled up in a year as per Article 16, shall be considered separately for filling vacancies in the succeeding year and the previous list will not be considered for filling the 50% quota of the respective year.

82. (2000) provides that nothing in the article 355 shall prevent the state from making any provisions in favour of the members of SC/ST for relaxation in qualifying marks with respect to examination/job/promotion.

83. (2000) The Act amended Article 243M to provide that no reservation in Panchayats be made in favour of SC/ST in Arunachal Pradesh where the whole population is tribal.

84. (2001) - The Act amended provisos to Articles 82 and 170(3) to readjust the territorial

constituencies in the States, without altering the number of seats allotted to each State in House of People and Assemblies, including the S.C. & S.T. constituencies 1991.

85. (2001) - Amended Article 16(4A) to provide for consequential seniority in promotion by virtue of rule of reservation for the Government servants belonging to the Scheduled Castes and the Scheduled Tribes.

86. (2002) provides for (i) insertion of a new article 21A that the State shall provide free and compulsory education to all children of the age of six to fourteen years in such manner as the state may, by law, determine.

87. (2003) This Article provides that in Article 81 of the Constitution, in clause (3), in the proviso, in clause (ii), for the figures "1991", the figures "2001" shall be substituted.

88. (2003) This Article provides for the insertion of a new article 268A which states that taxes on services shall be levied by the Government of India and such tax shall be collected and appropriated by the government of India and the States in the manner provided in clause (2).

89. (2003) This Article provides for the amendment of Article 338 and insertion of a new article 338A which provides that there shall be a National Commission for ST.

90. (2003) This Amendment provided that for elections to the Legislative Assembly of the State of Assam, the representation of the Scheduled Tribes and non-Scheduled Tribes in the constituencies included in the Bodoland Territorial Areas District, so notified, and existing prior to the constitution of the Bodoland Territorial Areas District, shall be maintained.

91. (2003) This Article provides that the total number of Ministers, including the Prime Minister, in the Council of Ministers shall not exceed fifteen per cent of the total number of members of the House of the people.

92. (2003) This Article provides for the induction of four new languages, viz. Bodo, Dogri, Maithili and Santhali in the Eighth Schedule of the Constitution.

Indian Economy: A Review of Recent Developments

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The current developments of the Indian economy can be examined only in the context of the economic reforms implemented since 1991. The Structural Adjustment Reforms have been implemented in India in order to avert the unprecedented economic crisis of the Indian economy during early 1990s. There had been a sharp decline in foreign exchange reserves, capital inflows through commercial borrowings and non-residents deposits. The country had been experiencing large and persistent macro economic imbalances, low productivity and low rate of return from investment. The fiscal deficit of the central and state governments reached an alarming level. There had been a steep increase in external and internal debt. The country began to experience a double digit inflation. The thrust of the reform process was to increase the efficiency and international competitiveness of industrial production, to utilize for this purpose foreign investment and foreign technology to a greater degree than in the past, to increase the productivity, to modernize the financial sector and to attain a technological and competitive edge in the fast-changing global economy. During the last one and a half decades the performance of Indian economy was much better compared to the previous periods. In this context, the article examines the recent developments of the Indian economy.

1. Economic Growth and Structural Change

Economic Growth

Annual economic growth is the indicator which reflects the performance of any

economy. Economic growth is calculated on the basis of increase in the Gross Domestic Product indicating the value of goods and services produced in an economy during a year and estimated either at current or constant prices. The sector-wise annual growth rate of Indian economy estimated at constant prices are given in Table 1. The table shows that the overall growth of the Indian economy was at a higher rate during the decade 1990's compared to the earlier decade. During 1990's the economy achieved a growth rate ranging between 6 to 7.3 percent during five years. During the present decade the economy achieved a higher rate since 2003-04.

An attempt is made to examine the sector-wise growth rate of Indian economy during the post-reform period. It is found that the primary sector comprising agriculture, forestry, fishing, mining and quarrying registered very low or negative growth rate in four years during the decade 1990's. During the new millennium, the sector also registered a negative or very low rate of growth in 2002-03 and 2002-03. The major factor which determines the growth rate of the primary sector was the availability of adequate rainfall.

The growth of the secondary sector comprising manufacturing, construction, electricity, gas and water supply was at a much higher growth rate during the decade 1990's. During 1990's, it was 7.3 percent and above. However, the growth rate of the sector during the first half of the present decade was better.

Compared to the primary and secondary sectors the tertiary sector comprising trade, hotels, transport and communications, financing, insurance, real estate and business services, public administration and defence etc. registered a higher growth rate during the post-reform period (Table 1). During the last five years the sector witnessed an average rate of growth of more than 7 percent. Thus, a review of sector-wise growth rate of Indian economy shows that the economic reforms have accelerated a higher rate of growth of tertiary sector during the post-reform period compared to other sectors (Table 1).

Structural change

The structural change which denotes the changes in the share of primary, secondary and tertiary sectors to the total Gross Domestic Product, gives an idea about the broad changes that have been taking place in an economy. The broad changes in the structure of Indian economy during the post-reform period is shown in Table 2. A major change is the decline in the importance of primary sector comprising agriculture and allied activities. The share of the sector fell from 34.93 percent in 1991 to 22.97 percent in 2004-05. In the case of the secondary sector, the sectoral share registered a marginal decline during the post-reform period. On the other hand, the share of the tertiary sector had witnessed a continuous increase. Currently, 53.22 percent of the national income is produced in the tertiary sector. Thus, the economic reforms had initiated a process of structural change favouring the rapid growth of tertiary activities.

Economic Indicators

Based on the selected economic indicators, an attempt is made to provide the broad changes in national income, per capita income, industrial production, agricultural production, gross domestic capital formation and plan outlay during the first half of the

present decade. Table 3 gives the selected economic indicators. The GDP at constant prices has increased from Rs. 18,70,387 crore in 2001 to Rs. 23,93,671 crore in 2004-05. Per capita income at constant prices increased from Rs. 16,223 to Rs. 19,699 during the period. The index of industrial production showed a steady rise during the period. On the other hand, the index of agriculture production registered a fall during two years. The gross domestic savings registered a steady increase during this period. The annual plan outlay also registered a rise and Rs. 2,69,267 crore was proposed as the annual plan outlay for 2004-05.

Table 4 presents the key indicators of output such as food grains, finished steel, cement, coal, crude oil and electricity generated. During the first half of the present decade except food grains, all other outputs have registered an increase.

Health indicators

Another issue is the impact of the economic reforms on the health status of the people. From table 5 we get the broad changes in the health status of the people. During the decade 1990's there has been a decline in birth rate, death rate and fertility rates. The maternal mortality ratio, infant mortality rate, child mortality rate also registered a decline. Another notable development was the increase in the life expectancy of population. Thus, the above facts suggest that the economic reforms have helped to improve the health status of the people to some extent.

II. Agriculture

Agriculture and allied sectors provide more than half of the total employment and nearly one-fourth of the national income (GDP). According to the NSSO survey 2004, 66 percent of the usually employed males and 84 percent of the usually employed females were engaged in agriculture sector in rural

III Industry, Infrastructure, and services

Industry

During the beginning of the present millennium the industrial production remained very low especially in 2001-02 (Table 12). However, the industrial sector was able to achieve a recovery in production due to higher rate of growth of manufacturing and mining and quarrying activities. On the other hand, the growth of electricity production remained at a lower rate. The industries which witnessed rapid development during 2004-05 are beverages and tobacco products, textile products, paper and paper products, non electrical machinery, transport equipments and other manufacturing industries. Some of the industries which recorded higher rates of growth are automobile industries, textiles, gems and jewellery. The latest data on industrial production suggest that the manufacturing sector has recorded a higher growth in 2005-06 compared to the previous year. It is estimated that the manufacturing sector has recorded a growth of 9 percent in 2005-06 (April-February). It accounted for 93 percent of the total industrial sector growth. The important industries which registered an acceleration in growth during 2005-06 are other manufacturing industries, textile products, beverages and tobacco related products, basic metal and alloy, transport equipment etc. (Table 13).

On the other hand, the industries which experienced deceleration in growth are machinery and equipment other than transport, chemical and chemical products, jute and other fibres, paper and paper products etc. During the above period the industries which witnessed a negative growth are metal products, leather products and wood products.

Infrastructure

A review of the growth of physical output in infrastructure sectors indicates a moderate growth between 2001-02 to 2004-05 (Table

14). In the case of coal production and electricity generation the growth rate was low or moderate. The trends in crude oil production remained at low level. However, the production of steel and cement remain at moderate level. In the communication sector, rapid growth was recorded in the new telephone connections especially mobile phones. The number of mobile phones has increased from 6.54 lakh in March 2002 to 78.08 lakh in September 2005 (Table 15). It may be pointed out that basic infrastructure items like electricity, coal and petroleum products have not recorded higher levels required for attaining higher output in other sectors.

Services

Table 16 shows the indicators of the service sector during the last two years. During 2004-05 the indicators which recorded a higher growth are tourist arrivals, commercial vehicle production, new cell phone connections, import of cargo handled in civil aviation, passengers handled in domestic terminal and upgradation of highways. Growth in bank deposits, sustained acceleration in non-food credit, an increased export of information technology and enabled services have also contributed to the growth of service sector. But the tempo of the growth was not continued during 2005-06. The table shows that the majority of the indicators recorded a decline in the year 2005-06.

IV. External Sector

A notable achievement of the economic reforms has been the steady and sustained improvement of the Balance Of Payment (BOP) positions of India till 2003-04. Table 17 gives the summary of the BOP situation between 2000-01 to 2004-05. The recent developments in the BOP situation are given below.

Compared to 2003-04 there has been a deterioration in BOP situation in 2004-05 due

to the following factors. While the value of exports increased by 24 percent the import recorded growth rate of 48 percent resulting in an increase in trade balance. A major factor contributed to the increase in the imports was contributing the increase in world oil prices. The growth in the value of Petroleum Oil and Lubricants (POL) products was 45 percent during the year. There has been a decline in the invisibles, especially private transfers. All these have contributed to the deficit of current account in 2004-05. This marked a significant departure in the structural composition of India's BOP, with current account after three consecutive years of surplus turning into deficit. These developments can be considered as the indication of a deterioration in BOP situation. During the year there has been an increase in the external assistance and also commercial borrowings. However, there has been some improvement in capital account due to foreign investment flows and other financial flows to the country.

India's foreign trade data recently released by Ministry of Commerce and Industry indicate sustained high growth in merchandise exports and imports during 2005-06 (RBI Bulletin, May 2006). While the value of the exports in US \$ increased by 25 percent the import recorded the growth of 31.7 percent. The import of POL increased by 46.9 percent. The average crude oil price (Indian basket) during 2005-06 stood at US \$ 55.4, higher by 42.4 percent than a year ago. The non-oil imports recorded a growth of 26.8 percent during 2005-06. And the trade deficit stood at US \$ 39.6 billion during 2005-06, higher by 52.7 percent than the previous year. The developments in the export and import indicate a further deterioration in the BOP situation during 2005-06.

A trend in the growth of foreign exchange reserves will give us an idea about the stability the country achieved in the external sector. If foreign exchange reserves comprise gold,

Reserve Tranche Position in IMF, Special Drawing Rights (SDR) and foreign currency assets. Table 18 gives the trend in the foreign exchange reserves between 1990-91 and November 2005. The growth in foreign exchange reserves is mainly due to the growth in foreign currency assets. The total foreign exchange reserves of the country increased from \$5,834 million in 1990-91 to \$42,281 million in 2000-01. By the year 2005, it further increased to \$1,42,821 million. There has been a sustained increase in foreign exchange reserves during the first half of the present decade.

Commodity Composition of exports and Imports

India is a major exporter and importer of a number of products. Table 19 gives the commodity composition of exports. The three major categories of products exported from India are primary products, manufactured goods and petroleum and crude products. Primary products comprises of agriculture and allied, ores and minerals account for 16 percent of the total value of exports. Engineering goods, gems and jewellery, textile items, chemical and related products are the major industrial products exported from India. Nearly 72 percent of the exports are manufactured products. The structure of exports suggests that India has reached a stage of an industrially developed country, exporting industrial products.

Table 20 gives the principal commodities imported to India. POL account for nearly 32 percent of the value of imports. Capital goods and gold and silver account for another 20 percent of the value of imports. The other important items of imports are pearls and precious stones, electronic goods, chemicals, edible oils, coke, coal and metaliferous ores. POL, capital goods and ores are the items having a highest increase in imports recently.

V. Inflation, Unemployment and Poverty

Inflation the whole sale price index, which reflects changes in the price of 447 commodities covering all traded goods in primary sector, fuel, power and manufacturing sector is the principal indicator of inflation. Table 21 gives the trends in inflation during the post-reform period. During the early years of the post-reform period, Indian economy had witnessed an acceleration of inflationary trends. During the first half of the 1990's, the annual average rate of inflation was more than 10 percent. However, the rate of inflation registered a fall during the second half of the 1990s and the first half of the present decade. The increase in prices of fuel is a major cause for the increase in inflation in recent years.

Unemployment

We also present the trends in unemployment based on recent estimates of National Sample Survey Organisation (NSSO). Here the definition used to measure unemployment is Current Daily Status definition (CDS). The CDS indicates the unemployment status of a person without gainful employment and seeking employment during all the seven days in a week. The rate of unemployment is the ratio of unemployed days per week to the total labour supply per week (working plus seeking plus available days). According to NSSO survey, the unemployment rate for males and females both in rural and urban areas has recorded an increase between 1993-94 and 2004 (Table 22). Currently 9 per cent of the males and 9.3 percent of female labour force is unemployed in rural areas. The corresponding rates for urban areas are 8.1 percent and 11.7 percent.

Poverty

Incidence of poverty is estimated on the basis of poverty line. The poverty line serves as a cut-off line for separating the poor from the non-poor, given the size distribution of

population by per capita consumer expenditure classes. Population with per capita consumer expenditure levels below the level defined by the poverty line is counted as poor. The Expert Group of Planning Commission (1993) has recommended a monthly per capita total expenditure, of Rs. 115.43 (rural) and 165.58 (urban) in 1987-88 as the poverty line for the country as a whole. At this level of percapita total expenditure it is expected that a person will get the required per capita daily intake of 2400 calories in rural areas and 2100 calories in urban areas. Table 23 shows the poverty rated and the total number of poor persons in India. The data indicates that there has been a decline in poverty between 1993-94 and 1999-2000.

VI. Where do we stand?

During the recent years, Indian economy recorded a mixed performance of positive as well as negative developments. The growth rates of secondary and tertiary sectors were better since 2002-03. But the agricultural sector recorded a low or negative growth rate. A review of the key indicators of output revealed that except foodgrains, all other output have recorded an increase during the recent years. A unfavourable development is the low rate of growth of physical output in infrastructure especially electricity, coal and petroleum products. In the case of services the growth of major items of services recorded a marginal decline in 2005-06. A disturbing development is the deterioration in the overall BOP situation in recent years. The hike in oil prices, steep increase in exports and decline in the inflow of invisibles have led to a deficit in current account. However, India has a comfortable foreign exchange reserve situation. Another negative development is the increase in the rate of unemployment both in urban and rural areas. This indicates that the economic reforms have not succeeded in generating more jobs for the unemployed labour force.

Table 1
Annual Growth Rates of Gross Domestic Product

(Per Cent)

Year	Agriculture forestry & mining and quarrying	Manufacturing construction electricity gas and water supply	Trade hotels, transport & commu- nication	Financing insurance, real estate and business services	Public administration & defence and other services	Gross domestic product at factor cost (2006)
	2	3	4	5	6	7
At 1993-94 prices						
1990-91	4.6	7.4	4.9	7.7	4.1	5.6
1991-92	-1.1	-1.0	2.5	12.0	2.6	1.3
1992-93	5.4	4.3	5.6	5.9	4.6	5.1
1993-94	3.9	5.6	7.1	13.4	3.5	5.9
1994-95	5.3	10.3	10.4	5.6	3.2	7.3
1995-96	-0.3	12.3	13.3	8.2	7.9	7.3
1996-97	8.8	7.7	7.8	7.0	6.3	7.8
1997-98	-1.5	3.8	7.8	11.6	11.7	4.8
1998-99	5.9	3.8	7.7	7.4	10.4	6.5
1999-2000	0.6	4.9	8.5	10.6	12.2	6.1
New Series at 1999-2000 prices						
2000-01	0.2	6.7	7.1	4.1	4.7	4.4
2001-02	5.8	2.8	9.2	7.3	3.9	5.8
2002-03	-5.6	6.8	9.1	8.0	3.8	3.8
2003-04 (P)	9.6	7.9	12.0	4.5	5.4	8.5
2004-05 (Q)	1.2	8.9	10.6	9.2	9.2	7.5
2005-06 (A)	2.3	9.0	11.1	9.5	7.9	8.1

Provisional; Q: Quick estimates; A: Advance Estimates

Source: Economic Survey, 2005-06

Table 2
Sector-wise change of Gross Domestic Product

Year	Primary	Secondary	Tertiary	Total
1990-91*	34.93	24.49	40.58	100.00
1999-2000**	27.65	23.09	49.25	100.00
2004-05**	22.97	23.80	53.22	100.00

Based on 1993-94 prices * Based on 1999-2000 prices

Source: Economic Survey, 2005-06

Table 3
Selected Economic Indicators

	1990-91	2000-01	2001-02	2002-03	2003-04	2004-05
GDP at factor cost: \$						
a. At current prices (Rs. crore)	5,10,954	19,30,184	20,97,446	22,55,574	25,43,396*	28,43,897*
b. At constant prices (Rs. crore)	6,92,871	18,70,387	19,78,055	20,52,586	22,26,041*	23,93,671*
Per capita net national product, at constant prices \$ (Rupees)	7,321	16,223	16,910	17,281	18,517*	19,649*
Index of Industrial production (Base 1993-94=100)	91.6	162.6	167.0	176.6	189.0	204.8

Index of agricultural production (Base: triennium ending 1981-82)	148.4	165.7	178.8	150.4	181.0	179.2
Gross domestic capital formation\$ (as per cent of GDP)	26.3	24.2	23.0	25.3	27.2 ^p	30.1 ^q
Gross domestic savings\$ (as per cent of GDP)	23.1	23.5	23.6	26.5	28.9 ^p	29.1 ^q
Plan Outlay (Rs. crore)	58,369	1,85,737	1,86,315	2,10,203	2,43,550(RE)	2,69,267(BE)

\$ Prior to 2000-01 based on 1993-94 series, others on new series 1999-2000.
P: Provisional; Q: Quick; RE: Revised Estimate; BE: Budget estimate Source: Economic Survey, 2005-06

Table 4
Key Indicators of Output

	1990-91	2000-01	2001-02	2002-03	2003-04	2004-05
a. Foodgrains (million tonnes)	176.4	196.8	212.9	174.8	213.5	204.6
b. Finished Steel (million tonnes) ^{EE}	13.5	30.3	31.1	33.4	36.9	39.3
c. Cement (million tonnes)	48.8	97.6	106.9	116.3	123.5	133.6
d. Coal (including lignite) (million tonnes)	225.5	332.6	352.6	367.2	389.3	412.9
e. Crude oil (million tonnes)	33.0	32.4	32.0	33.0	33.4	34.0
f. Electricity generated (utilities only) Billion KWH)	264.3	499.5	517.4	532.7	565.1	608.6

^{EE} including secondary producers

Source: Economic Survey, 2005-06

Table 5
Selected health indicators

	Parameter	1981	1991	Current level
1.	Crude birth rate (Per 1,000 population)	33.9	29.5	24.8 (2003)
2.	Crude death rate (Per 1,000 population)	12.5	9.8	8.0 (2003)
3.	Total fertility rate (TFR) (Per woman)	4.5	3.6	3.0 (2001)
4.	Maternal mortality ratio (MMR) (Per 1,00,000 live births)	NA	437 (1992-93)	407 (1998)
5.	Infant mortality rate (IMR) (Per 1,000 live births)	110	80	60 (2003)
6.	Child (0-4) mortality rate (Per 1,000 children)	41.2	26.5	17.8 (2002)
7.	Couple protection rate (per cent)*	22.8	44.1	48. (1998-99)
8.	Life expectancy at birth			
	8.1 Male	54.1	59.7 (1991-95)	63. (2001-06)
	8.2 Female	54.7	60.9 (1991-95)	66. (2001-06)

Note: The dates in the brackets indicate years for which information is available

NA: Not Available

Source: Economic Survey, 2005-06

Table 6
Foodgrains production

(million tonnes)

Crop/Year	2000-01	2001-02	2002-03	2003-04	2004-05*
Rice	85.0	93.3	71.8	88.3	85.3
Wheat	69.7	72.8	65.8	72.1	72.0
Coarse Cereals	31.1	33.4	26.1	38.1	33.9
Pulses	11.1	13.4	11.1	14.9	13.4
Foodgrains					
(i)	<i>Kharif</i>	102.1	112.1	87.2	116.9
103.3					
ii.	<i>Rabi</i>	94.7	100.8	87.6	96.6
101.3					
Total (i) + (ii)	196.8	212.9	174.8	213.5	204.6

* 4th advance estimates

Source: Economic Survey, 2005-06

Table 7

Production of Foodgrains in three largest producing states

Year: 2004-05 (P)

	States	Production	Per cent Share of Production to All India	(Production Million Tonnes) Cumulative per cent of Production
Rice	West Bengal	14.91	17.48	17.48
	Uttar Pradesh	10.88	12.75	30.23
	Punjab	10.44	12.24	42.47
Wheat	Uttar Pradesh	24.78	34.42	34.42
	Punjab	14.87	20.65	55.07
	Haryana	9.16	12.72	67.79
Maize	Karnataka	2.38	16.83	16.83
	Andhra Pradesh	1.92	13.58	30.41
	Uttar Pradesh	1.49	10.54	40.95
Total Coarse Cereals	Maharashtra	6.02	17.75	17.75
	Karnataka	5.77	17.01	34.76
	Rajasthan	4.88	14.39	49.15
Total Pulses	Madhya Pradesh	3.43	25.64	25.64
	Uttar Pradesh	2.36	17.64	43.27
	Maharashtra	1.70	12.71	55.98
Total foodgrains	Uttar Pradesh	41.46	20.26	20.26
	Punjab	25.84	12.63	32.89
	West Bengal	16.25	7.94	40.83

Source: Economic Survey, 2005-06

Table 8
Commercial crops: production

Crop/Year	2000-01	2001-02	2002-03	2003-04	2004-05@
Groundnut	6.4	7.0	4.1	8.2	7.0
Rapeseed & Mustard	4.2	5.1	3.9	6.2	8.4
Soyabean	5.3	6.0	4.7	7.9	7.5
Other oilseeds	2.5	2.6	2.1	3.0	3.2
Total nine oilseeds	18.4	20.7	14.8	25.3	26.1
Cotton*	9.5	10.0	8.6	13.9	17.0
Jute & Mesta**	10.6	11.7	11.3	11.2	10.5
Sugarcane	296.0	297.2	287.4	237.3	232.0

* Million bales of 170 kgs. each ** Million bales of 180 kgs. each

@ 4th advance estimates

Source: Economic Survey 2005-06

Table 9
Area and production of major horticultural crops

(Area-Million hectare, Production-Million tonnes)

Crops	2003-04		2004-05*		2005-06	
	Area	Production	Area	Production	Area	Production
Fruits	4.8	49.2	5.0	53.1	5.2	57.6
Vegetables	5.9	84.8	6.1	91.6	6.3	99.4
Spices	2.4	3.8	2.5	4.1	2.6	4.4
Plantation Crops	3.1	13.1	3.2	14.1	3.3	15.3
Flowers	0.1	0.2	0.1	0.2	0.1	0.2
Others	0.9	0.9	0.9	1.0	1.0	1.1
Total	17.2	152.0	17.8	164.1	18.6	178.1

Source: National Horticulture Board. * Estimated

Table 10
Production and percapita availability of milk

Year	Milk Production (Million Tonnes)	Per capita availability (gms/day)	2001-02	84.4	22
			2002-03	86.2	23
			2003-04	88.1	23
			2004-05	90.7	23
1990-91	53.9	176	Source: Department of Animal Husbandry Dairying and Fisheries		
2000-01	80.6	220			

Table 11
1.9 Index Numbers of Agricultural Production

(Base: Triennium ending 1981-82 = 100)

	Weight	2000-01	2001-02	2002-03	2003-04	2004-05
A. Foodgrains	62.92	158.4	172.5	140.4	172.1	164.0
a. Cereals	54.98	165.5	178.5	144.9	175.7	169.0
Rice	29.74	170.9	187.7	144.4	177.5	171.0
Wheat	14.45	198.0	206.7	186.8	204.9	204.0
Coarse Cereals	10.79	107.2	115.2	90.0	131.8	117.0

Pulses	7.94	109.3	131.3	109.5	147.1	131.3
Gram	3.07	93.7	133.1	103.0	140.7	136.9
Non-foodgrains	37.08	178.2	189.5	167.2	196.0	203.7
Oilseeds Total	12.64	176.5	195.1	150.8	231.6	242.5
Groundnut	5.60	106.8	117.2	68.7	136.4	117.1
Rapeseed and Mustard	2.41	205.2	249.1	190.1	303.8	409.5
Fibres	5.09	126.6	133.8	117.5	177.3	211.8
Cotton	4.37	126.6	132.9	114.7	184.4	226.1
Jute	0.55	144.2	163.8	159.0	159.4	149.2
Mesta	0.14	72.5	64.0	58.6	54.3	49.9
Plantation Crops	2.29	209.0	208.9	208.9	208.9	208.9
Tea	1.46	151.3	151.1	151.1	151.1	151.1
Coffee	0.44	216.8	216.3	216.3	216.3	216.3
Rubber	0.39	416.1	416.8	416.8	416.8	416.8
Others						
Sugarcane	8.11	189.4	190.2	183.9	151.9	148.7
Tobacco	1.12	71.8	113.6	102.4	102.4	102.4
Potato	2.09	241.5	256.9	248.7	248.7	248.7
All Commodities	100.00	165.7	178.8	150.4	181.0	179.2

Source: Economic Survey 2005-06

Table 12
Annual growth rate of industrial production

(Based on the index of industrial production)

Base 1993-94=100

(Percent)

Period	Mining & Quarrying	Manufacturing	Electricity	Overall
Weights	10.47	79.36	10.17	100.00
1995-96	9.7	14.1	8.1	13.0
2000-01	2.8	5.3	4.0	5.0
2001-02	1.2	2.9	3.1	2.7
2002-2003	5.8	6.0	3.2	5.7
2003-04	5.2	7.4	5.1	7.0
2004-05	4.4	9.2	5.2	8.4
2004-05*	5.1	9.2	6.4	8.6
2005-06*	0.4	8.9	4.8	7.9

* (April-December)

Source: Economic Survey 2005-06

Table 13
Performance of manufacturing Industry Groups:
2005-06 (April-February)

S.No.	Item	Percent
1	Acceleration in Growth	
1	Other Manufacturing industries	24.3
2	Textiles Products including apparels	12.2
3	Beverages, tobacco and related products	14.2
4	Basic Metal and alloy industries	14.7

5.	Transport equipment and parts	12.6
6.	Non-metallic mineral products	10.2
7.	Cotton Textiles	9.4
8.	Rubber, Plastic, Petroleum and Coal products	4.3
9.	Food Products	0.7
II.	Deceleration in Growth	
1.	Machinery and equipment other than transport equipment	11.7
2.	Chemicals and chemical products	8.5
3.	Jute and other vegetable fibre	1.0
4.	Paper and paper products and printing publishing and allied activities	0.6
5.	Wool, silk and man made fibre textiles	0.5
III	Negative Growth	
1.	Metal products and parts (except machinery and equipment)	-1.3
2.	Leather and leather and fur products	-5.0
3.	Wood and wood products, furniture and fixtures	-5.6

Source: RBI, Bulletin, May 2006

Table 14
Trends in growth of physical output infrastructure sectors (in per cent)

Items	2001-02	2002-03	2003-04	2004-05
I. Energy				
1. Coal production	4.5	4.2	5.8	3.9
2. Electricity generated by utilities	3.1	3.2	5.0	5.2
a. Hydel	-0.7	-13.7	15.6	14.5
b. Thermal (including nuclear)	2.5	6.2	3.6	3.8
3. Petroleum				
a. Crude oil production	-1.2	3.2	1.0	1.8
b. Refinery throughput	3.7	4.9	8.2	4.3
II. Steel	4.6	9.9	9.8	6.5
III. Cement 7.4	8.8	6.1	6.6	
Average growth of I to III	3.5	5.5	6.2	5.1
IV. Transport and Communications				
1. Railway revenue-earning goods traffic	4.0	5.3	7.5	8.0
2. Cargo handled at major ports	2.3	9.0	10.0	11.3
3. Telecom New telephone connections	23.9	21.5	40.1	28.5
4. Civil Aviation				
a. Cargo handled				
i. Export cargo handled	4.1	13.3	1.0	12.6
ii. Import cargo handled	-1.0	18.6	13.4	24.4
b. Passengers handled at				
i. International Terminals	-5.0	4.8	6.5	14.0
ii. Domestic Terminals	-5.7	9.6	13.1	23.6

Source: Economic Survey, 2005-06

Table 15
Growth of telephones over the years

Sl. No.	Year	Fixed in million			Per cent of PSUs	Mobile in million			Per cent of PSUs
		PSUs	Pvt.	Total		PSUs	Pvt.	Total	
1.	2001-02	37.90	0.52	38.42	98.65	0.26	6.28	6.54	3.98
2.	2002-03	40.53	1.10	41.63	97.36	2.64	10.35	12.99	20.32
3.	2003-04	40.49	2.36	42.85	94.49	5.99	27.70	33.69	17.78
4.	2004-05	41.11	5.09	46.20	88.98	10.97	41.20	52.17	21.03
5.	2005-06 (first 9 months)	40.70	7.01	47.71	85.31	16.48	61.60	78.08	21.11

PSUs & Public Sector units

Source: Economic Survey 2005-06

Table 16
Indicators of Service Sector Activity

Growth rates in per cent

Sub-Sector	April-January 2004-05	April-January 2005-06
Tourist arrivals (April-February)	23.7	11.7
Commercial vehicles production (April-Dec.)	32.3	9.7
Railway revenue earning freight traffic	7.8	10.4
New cell phone connections	17.1	68.0
Cargo handled at major ports	10.8	11.7
Civil aviation		
a. Export cargo handled	12.4	7.3
b. Import cargo handled	28.6	13.5
c. Passengers handled at international terminals	15.6	12.8
d. Passengers handled at domestic terminals	25.3	22.9
Roads: Upgradation of Highways	19.0	20.9
Cement (April-February)	6.6	11.9
Steel (April-February)	7.5	5.3
Aggregate deposits (end-March, year-on-year)	14.8	16.9
Non-food credit (end-March, year-on-year)	28.8	30.8
Central Government expenditure (April-February)	5.6	1.7

Source: RBI Bulletin, May, 2006

Table 17
Balance of Payments: Summary

(In US \$ Million)

	2000-01	2001-02	2002-03	2003-04	2004-05
1. Exports	45,452	44,703	53,774	66,285	82,150
2. Imports	57,912	56,277	64,464	80,003	1,18,729
of which POL	15,650	14,000	17,640	20,569	29,844
3. Trade balance	-12,460	-11,574	-10,690	-13,718	-36,629
4. Invisibles (net)	9,794	14,974	170,35	27,801	31,229
Non factor services	1,692	3,324	3,643	10,144	14,199
Income	-5,004	-4,206	-3,446	-4,505	-3,814
Pvt. transfers	12,854	15,398	16,387	21,608	20,253
Official transfers	252	458	451	554	591

5.	Current Account Balance	-2,666	3,400	6,345	14,083	-5,400
6.	External assistance (net)	410	1,117	-3128	-2858	1,923
7.	Commercial borrowing (net)@	4,303	-1,585	-1,692	-2,925	5,040
8.	IMF (net)	-26	0	0	0	0
9.	NR deposits (net)	2,316	2,754	2,978	3,642	-964
10.	Rupee debt service	-617	-519	-474	-376	-417
11.	Foreign investment (net) of which	5,862	6,686	4,161	13,744	12,147
	i. FDI (net)	3,272	4,734	3,217	2,388	3,240
	ii. FII	1,847	1,505	377	10,918	8,280
	iii. Euro equities & others	743	447	567	438	627
12.	Other flows (net)+	-3,739	-96	8,795	6,111	13,830
13.	Capital account total (net)	8,509	8,357	10,640	17,338	31,559
14.	Reserve use (-increase)	-5,842	-11,757	-16,985	-31,421	-26,159

Source: Economic Survey, 2005-06

Table 18
Foreign Exchange Reserves

(US \$ Million)

Year	Gold	RTP	SDRs	Foreign Currency Assets	Total
1990-91	3,496	-	102	2,236	5,834
1995-96	4561	-	82	17,044	21,687
2000-01	2725	-	2	39,554	42,281
2001-02	3,047	-	10	51,049	54,106
2002-03	3,534	672	4	71,890	75,428*
2003-04	4,198	1,311	2	1,07,448	1,12,959*
2004-05	4,500	1,438	5	1,35,571	1,41,514*
2005 - November	4,925	1,310	4	1,36,582	1,42,821*

* Includes Reserve Tranche Position (RTP) in India

Source: Economic Survey, 2005-06

Table 19
Commodity composition of exports

Commodity Group	Percentage Share April-October		Growth rate* April-October	
	2004	2005	2004	2005
i. Primary products	14.8	16.1	39.7	17.0
Agriculture & allied	11.2	9.9	27.0	8.8
Ores & minerals	4.9	5.4	81.1	35.9
ii. Manufactured goods	74.1	72.4	20.2	20.5
Textiles including ready-made garments	13.2	11.8	9.3	10.5
Gems & jewellery	17.4	17.9	20.8	26.9
Engineering goods	20.2	20.1	36.6	23.1
Chemical & related products	11.8	11.1	30.1	15.9
Leather & manufactures	2.1	1.7	16.9	6.3
Handicrafts	0.5	0.5	-19.6	11.6
iii. Petroleum, crude & products	8.7	11.1	89.4	57.7
Total Exports (i+ii+iii)	100.0	100.0	28.3	23.5

* In US \$ terms

Source: Economic Survey, 2005-06

Table 20
Imports of principal commodities

Commodity Group	Percentage Share		Growth rate*	
	April-October		April-October	
	2004	2005	2004	2005
POL	30.2	31.8	56.8	41.4
Pearl, precious & semi-precious stones	7.9	8.1	12.6	36.4
Capital goods	9.6	10.3	23.3	44.2
Electronic goods	9.3	8.2	33.3	17.9
Gold & silver	9.4	9.0	31.5	34.1
Chemicals	6.2	5.6	31.9	19.7
Edible oils	2.6	1.6	-11.9	-15.3
Coke, coal and briquettes	2.8	2.0	99.5	-3.2
Metaliferous ores & metal scrap	2.2	2.6	72.1	57.0
Professional instruments and optical goods	1.4	1.3	15.2	26.8
Total Imports	100.0	100.0	36.9	34.3

* In US \$ terms Source: Economic Survey, 2005-06

Table 21
Inflation in terms of Wholesale Price Index since 1991-92

Based on 52-week average inflation rates

Period ↓ Weights →	Annual average WPI Inflation (%)			
	All Commodities	Primary	Fuel	Manufactured
1991-92 to 1995-96	10.6	11.3	11.3	10.1
1996-97 to 2000-01	5.1	5.4	13.0	3.1
2001-02 to 2004-05	4.7	3.7	7.7	4.1
2005-06 as on 28.01.2006	4.7	2.4	9.8	3.6

Source: Economic Survey, 2005-6

Table 22
Unemployment rates in India (NSS)

Current Daily Status (CDS) Definition		
Area	50th Round (1993-94) (Percent)	50th Round (2004) (Percent)
Rural i. Males	5.8	9.0
ii. Females	5.6	9.3
Urban i. Males	6.7	3.1
ii. Females	10.5	11.7

Unemployment Rate: Percentage of unemployed to total labour force.

Source: Economic Survey, 2005-06

Table 23
Estimates of Incidence of Poverty in India

Year	Poverty Ratio (Percent)			Number of Poor (Million)		
	Rural	Urban	Combined	Rural	Urban	Combined
1987-88	39.1	38.2	33.9	231.9	152	383.9
1993-94	37.3	32.4	36.0	244.0	76.3	320.3
1999-00	27.1	23.6	26.1	193.2	67.1	260.3

Source: Economic Survey, 2003-04

Towards Agricultural Renewal and Renaissance

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The year 1968 marked the beginning of the Green Revolution leading to quantum jumps in the productivity and production of wheat and rice. The last 10 years have witnessed a fatigue in the green revolution with the growth rate in foodgrain production falling below population growth. Thus, human numbers are increasing faster than our capacity to make the goal of food for all a reality. At the same time, consumption is not going up due to inadequate purchasing power at the household level. A famine of jobs / livelihoods as a result of poor growth of opportunities for employment in the rural non-farm and off-farm sectors is leading to a famine of food at the household level. According to the Union Planning Commission, we are off-track in achieving the UN Millennium Development Goal of reducing the number of hungry persons by half by 2015. Also, we are off-track in reducing infant and maternal mortality rates and in achieving universal primary education.

Doubling Productivity

Our Prime Minister has rightly emphasized the need to double annual foodgrain production from the present 210 million tonnes to 420 million tonnes within the next 10 years, i.e. by 2015, which is also a benchmark year for achieving the UN MDGs. This will call for producing at least 160 million tonnes of rice from 40 million ha and 100 million tonnes of wheat from 25 million ha. Pulses, oil seeds, maize and millets will have to contribute 160 million tonnes. In addition,

the national goal is to raise the production of vegetables and fruits to over 300 million tonnes by 2015. Since land is a shrinking resource for agriculture, the pathway for achieving these goals has to be higher productivity per units of arable land and irrigation water. Factor productivity will have to be doubled, if the cost of production is to be reasonable and the prices of our farm products are to be globally competitive. The average farm size is going down and nearly 80% of the farm families belong to the marginal and small farmer categories. Fortunately, the ownership of livestock is more egalitarian. Enhancing small farm productivity, and increasing small farm income through crop-livestock integrated production systems and multiple livelihood opportunities through agro-processing and biomass utilization, are essential both to meet food production targets and for reducing hunger, poverty and rural unemployment. Programmes designed to achieve these goals must be engendered, since there is increasing feminisation of agriculture, poverty and under-nutrition, as well as unfortunately HIV/AIDS.

Suicides among Farmers

The year 2005 was a difficult year both for the nation and for farm and fisher families. Beginning with the titanic tsunami of 26 December 2004 and ending with the disastrous earthquake in Kashmir and floods in Tamil Nadu, our farm and fisher families have been subjected to the fury of nature in the form of drought, unseasonal and heavy

rains (like the one which caused damage to the onion crop in Maharashtra) and floods. Institutional support to small farmers is weak. The same is true of post-harvest infrastructure. For example, even now paddy is being spread on the roads for drying in many places. The spoilage losses can be as high as 30% in the case of vegetables and fruits. Institutions, which are supposed to help farmers, such as research, extension, credit and input supply agencies, are by and large not pro-poor and pro-women. Mechanisms for risk mitigation are poor or absent. Hardly 10% of farmers are covered by crop insurance. Farm families are also not covered by health insurance. There is no Agricultural Risk Fund. Both risk mitigation and price stabilization are receiving inadequate policy support. The cost of production is invariably higher than the minimum support price, due to ever-increasing prices of diesel and other inputs. Investment in agriculture has suffered a decline over the past two decades. Capital formation in agriculture and allied sectors in relation to GDP started declining in the 1980s and is only now being reversed. This has adversely affected irrigation and rural infrastructure development. As

groups, the average size goes up to. According to NSSO - 59th round, the average monthly per capita consumption expenditure of farm households across India was Rs.503 in 2003. Endemic hunger (i.e., chronic undernutrition), is high both in families without assets like land or livestock, as well as in families with small land holdings without access to irrigation. Policy reform in agriculture is thus overdue. Such policy reform should be pro-small farmer and pro-women and pro-landless agricultural labour. If we do not attend to the problems of small farm and landless agricultural labour families with a sense of urgency and commitment, the "Indian Enigma" of the co-existence of enormous technological capability and entrepreneurship, on the one hand, and extensive under-nutrition, poverty and deprivation, on the other, will not only persist, but will lead to social disruption, sex violence and increasing human insecurity. Without peace and security, achieving economic progress will not be possible. The National Commission on Farmers has therefore recommended that the agricultural year 2006-07 be designated the Year of Agricultural Revival.

policies. The programmes initiated during the 2006-07: Year of Agricultural Renewal by Central and State Governments, Panchayati Raj institutions, Agricultural Renewal by Central and State Governments, Panchayati Raj institutions, Agricultural, Veterinary, Rural and Women's Universities and IITs, Private and Public Sector Industries, Civil Society Organisations and Mass Media should be designed to foster productivity, quality, sustainability, profitability and employment revolutions in the farm sector in all the over 600,000 villages in the country. It should help to promote job-led economic growth in our villages.

The following should be the major components of the Action Plan for the Year of Agricultural Renewal. All of them require concurrent and integrated attention.

Soil Health Enhancement

Agricultural Universities, ICAR and CSIR Institutes, Krishi Vigyan Kendras, Fertilizer Companies, State Departments of Agriculture and Farmers' Associations and Panchayati Raj institutions should commemorate 2006-07 as the Year of Soil Health Enhancement. The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) located at Hyderabad may be actively associated in this programme. ICRISAT has very valuable information on the soil health status in dry-farming areas, ICRISAT, CRIDA, CAZRI at Jodhpur and the National Bureau of Soil Survey and Land Use Planning of ICAR can provide technical support and assist in monitoring. The following steps need to be taken to launch a Soil Health Care movement in the country:

i. Re-tool and re-equip all Soil Testing Laboratories in order to enable them to provide each farm household with a Soil Health Card, which contains integrated information on the physics (soil structure, occurrence of hard pan in the subsoil, etc.), chemistry (soil organic

matter and macro-and micro-nutrient status), and microbiology (occurrence of earthworms, soil micro-organisms etc.,) of the soils. The Soil Health Cards should stimulate balanced fertilization, including the amelioration of micro-nutrient deficiencies.

ii. Promote through campaigns and demonstrations, the introduction of fodder/ grain legumes in the crop rotations as also the cultivation of green and green-leaf manure crops.

iii. Composting of all agricultural residues and wastes and the use of microbial fertilizers and farmyard manure should be promoted to the maximum extent possible.

iv. Methods of improving soil health through integrated nutrient supply will have to be prescribed and farmers should be assisted to adopt the recommendations.

v. All staff working in Soil Testing Laboratories should be retrained.

vi. Integrated wasteland and biofuels programme should be promoted.

vii. The Agri-clinics programme should be restructured and revitalized and farm graduates should be encouraged to take to a career of self-employment in the rural services sector.

viii. Breeding soils for higher productivity may be undertaken in the case of problem soils and wastelands.

ix. Wasteland development could be linked to the production of biofuel and industrial raw material (for the production of paper and board, rayon, packaging material etc.) as well as fodder, firewood etc.

x. Community Land Care movements may be launched by Panchayats.

Soil Health Enhancement holds the key of improving the return from investment in other inputs like seeds and water. Dry-farming areas need particular attention from the point of view of overcoming micro-and macro-nutrient deficiencies. The new green revolution has to begin in rainfed areas. The Government of India has announced that it is setting up a

National Rainfed Area Authority for this purpose.

More Crops per Drop of Water

Irrigation Water: Supply Augmentation and Demand Management: Water is a public good and a social resource and not private property. The privatization of water supply distribution is fraught with dangers and could lead to water wars in local communities. Increasing supply through rainwater harvesting and recharge of the aquifer should become mandatory. In addition, a nationally debated and accepted strategy for bringing 10 million hectares of new area under irrigation under the Bharat Nirman programme should be developed. The Polavaram Project to be built across the Godavari in Andhra Pradesh is a case in point. Different viewpoints can be reconciled only by dialogue and consensus building. All existing wells and ponds should be renovated. Demand Management through improved irrigation practices, including sprinkler and drip irrigation, should receive priority attention. A Water Literacy movement should be launched and regulations should be developed for the sustainable use of ground water. Seawater farming should be promoted in coastal areas through the cultivation of mangroves, salicornia, casuarina and appropriate halophytic plants. The conjunctive use of rain, river, ground, sea and treated sewage water should become the principal method for the effective use of available water resources. In water scarce areas, the land use system should place emphasis on the cultivation of high value - low water requiring crop, such as pulses and oilseeds. Pulses and oil seed villages can be promoted where all farmers work together in harvesting rainwater and sharing the water equitably for growing pulses and oilseeds. Promotion of "Hybrid arhar (pigeon pea) villages" can be the starting point of a pulses revolution. In paddy and sugarcane, water saving methods of cultivation like those

inherent in the "System of Rice Intensification" (SRI) methodology should be perfected and popularized. More crops per drop of water should not remain just a slogan. Land use decisions are also water use decisions. Hence, the choice of cropping systems should be based on irrigation water availability including rainfall pattern. Watershed management should be linked to the different Technology Missions as emphasized in our earlier reports, so that the concurrent availability of water and of the other inputs like seeds needed to optimize the benefit from irrigation water can be ensured. Low cost green houses can be promoted in areas where evaporation exceeds precipitation during many months in a year. Panchayats may be assisted in launching water literacy and water quality management programmes.

Credit and Insurance

Credit reform should consist of the following measures:

i. **Interest rate on agricultural loans:** The spread between the deposit and lending interest rates in India is high by international standards. The need is to improve the efficiency in the financial intermediation by controlling both the transaction cost and the risk cost. On the part of the Government, crop insurance as well as the speed and manner in which the debt recovery and settlement process operates would need to be considerably improved. These improvements could be brought about in the medium to long term. A high interest rate means that a greater proportion of income has to be diverted to interest payment. Keeping in view the decline in the profitability of agriculture, and increasing farmers' distress and indebtedness, the government may consider providing support to the banking system for reducing the rate of interest for crop loans to 4% during the Year of Agricultural Renewal.

ii. **Compounding of interest on arrears:** The Compounding of interest on arrears

be applied only in the case of recalcitrant borrowers who do not pay the due inspite of having adequate repaying capacity. The farmers facing erosion in income and consequently their repaying capacity due to market failure should not be charged compound interest on arrears.

From micro finance to livelihood finance

iii. There is an urgent need for a paradigm shift from micro-finance to livelihood finance, as the access of the poor to micro-finance alone is not likely to alleviate their poverty. Livelihood finance is a comprehensive approach to promoting sustainable livelihoods for the poor, which includes financial services, [including insurance for life, health, crops and livestock: infrastructure finance for roads, power, market, telecom etc. and investment in human development], agriculture and business development services [including productivity enhancement, local value addition, alternate market linkages etc.] and institutional development services [forming and strengthening various producers' organisations, such as SHGs, water user associations, forest protection committees, credit & commodity cooperative empowering Panchayats through capacity building and knowledge centres etc.

iv. Access to institutional credit in poverty stricken tribal areas: Special efforts are required to improve the access to institutional credit in the poverty stricken tribal areas in the dry land agriculture regions like the Kalahandi belt of Orissa / palamau region of Jharkhand / tribal areas of Chhattisgarh/ Madhya Pradesh/ Andhra Pradesh and the Vidharba region of Maharashtra.

v. Agri-risk Fund: There are areas in our country, which have recurrent and frequent drought/floods etc., which cripple the incomes of the farmers. These farmers become defaulters to the banks and thereby become 'push-outs' of the credit system. Rescheduling

and restructuring of their loans are not enough in the event of successive natural calamities. The government of India may step into to create an Agricultural-Risk Fund to provide relief [waiver in full / part of loan and interest] to the farmers in the case of successive droughts, etc. and also waiver of interest on loans in areas hit by droughts, floods, heavy pest infestation etc. This Fund should have contributions from the Central Government, State Governments and Banks in a predetermined fashion.

vi. Distress 'hot spots' - moratorium on debt recovery: There is a need for moratorium on debt recovery including loans from non-institutional sources in distress hotspots, till reasonable profit margins in agriculture operations are restored. The debt recovery may be staggered in easy installments. For this purpose, liquidity support may have to be provided to the localised banks like the RRBs/ Cooperative Banks etc.

vii. Credit for low cost/sustainable agriculture: There is need for developing suitable project profiles for low input sustainable agriculture and aquaculture. Institutional credit should also be available for viable projects of sustainable farming practices including the upkeep of traditional breeds of cattle.

viii. Issue of Kisan Credit Card to Women farmers: The Kisan Credit Card (KCC) is a major innovation in agricultural credit. However, inspite of nearly 4.5 crore KCCs issued by the banks, very few cards have been issued to women farmers. As a matter of fact, no separate data are available in this regard. Keeping in view the fact that there are a very large number of women-headed farming families, particularly in the hills and NE Region, special effort is needed to issue KCC to these farmers. The banks may develop proper documentation systems to issue KCCs to women where the land is in the name of the menfolk who do not reside in the rural area [jobs in the

- ix **Distress sale** -need for pledge loans: distress sale by small / marginal farmers to square off their debts or for immediate consumption purposes soon after harvest is

x. **Credit business potential in marketing infrastructure:** The banking system needs to develop credit potential of financing projects for improving/modernization of markets, storage including cold storage facilities, rural based transport operators, etc.

xiii. Rural Insurance Development Fund: A Rural Insurance Development Fund may be created to take up development work for spreading rural insurance.

xiv. **Crop Insurance:** Crop insurance is covering about 14% of the farmers. The need is to expand the cover to all farmers and all crops in a time bound manner. The scheme needs to be made more farmer friendly and the premium reduced.

xvi. Establish in every block a Self-help Group Capacity Building and Mentoring Centre in order to equip members and managers of SHGs with the needed management, marketing and accounting expertise. The use of Kisan Call Centres needs to be popularized.

xvii. Develop and introduce an integrated credit-cum-crop-livestock-human health insurance package.

xviii. Promote credit and insurance literacy through the EveryVillage Knowledge Centre movement. For this purpose, introduce policies for more extensive use of Community Radio linked to the internet / cell phone.

Technology is the prime mover of change. Both technology fatigue and technology gap should be avoided. This will call for revitalization of research, education and extension systems. It is suggested that all ICAR institutions and Agricultural Universities may commemorate 2006-07 as the Agricultural Technology Year. The major aim of this year should be to strengthen participatory research and knowledge management with farming families; and the organisation of about 60,000 Lab to Land programmes in the area of post-harvest technology and value addition to primary products. Farm schools should be established in the fields of farmer-scholars in order to foster farmer to farmer learning of new technologies.

[illegible]

should be to enhance income per hectare on an environmentally sustainable basis.

There should be a proper match between production and post-harvest technologies and a post-harvest technology wing should be added to every Krishi Vigyan Kendra. Also, Lab to Land demonstrations should include post-harvest technology. About 60,000 lab to land demonstrations may be organized in the area of post-harvest handling, processing and value addition during 2006-07 to mark the 60th anniversary of our independence. Many of them should be organized in dry-farming areas, where millets, pulses, oilseeds and cotton are grown. The help of CSIR and the Central Food Technology Research Institute (CFTRI), Mysore should be taken by ICAR while designing the Lab to Land programme. The demonstration should be so designed that they also serve as training ground.

For landless agricultural labour (both women and men), the aim should be to convert them into skilled workers, thereby adding economic value to their time and labour. The training should be in skills which can help in organizing market driven enterprises and the training methodology should be based on the principle of learning by doing.

Management procedures which can confer the economy and power of scale to small and marginal farm families, such as Small Holders' Cotton and Horticulture Estates should be popularized. In such estates, production and biomass utilization can receive concurrent attention. Average farm size is going down steeply, and Farmers' SHGs in the form of joint management units like the Cotton, Horticulture, Aquaculture and other Estates are urgently needed. The SHG movement should cover both the production and post-harvest phases of farming.

Value addition to biomass will help to generate skilled jobs. Rice occupies the largest

area in the country and the opportunities for generating more jobs and income by establishing Rice BioParks. Similarly, eco-boards can be produced from cotton stalks.

There should be a pro-nature, pro-poor and pro-woman orientation to technology development and dissemination. Organic Farming and Low External Input Sustainable Agriculture (LEISA) techniques should be promoted along with Integrated Natural Resource Management and Integrated Pest Management (IPM) techniques. The role of women, both as farmers and farm labour is critical for the success of eco-farming practices. Hence, all programmes designed to foster access to technologies must be gender sensitive.

Agricultural and Rural Universities, Home Science colleges and Research Institutes should foster participatory research and knowledge management systems with farm women and men. They should identify farm families from whom other farmers can learn (land to land transfer of technology). Farm Schools should be established in the fields of such farmer-achievers as recommended in the first report of NCF.

Scientist - Panchayat Linkage

New technologies like biotechnology (BT) and Information, Communication Technology (ICT) should be demystified and a cadre of Rural Farm Science Managers should be developed by training a couple of women and men members of every Panchayat /local body in the management of new technologies, such as the establishment of refugia in Bt Cotton fields and the detection of spurious seeds by using the Bt detection kit developed by the Central Institute for Cotton Research, Nagpur. Under the 73rd Constitution Amendment, the responsibility of Panchayats includes agriculture and agriculture extension. Therefore, a Scientist-Panchayat linkage is the need of the hour.

Genome Clubs may be organized in village schools and KVKs to spread genetic literacy. Illegal release of genetically engineered crop varieties like Bt Cotton should be stopped. Spurious seeds will ruin the spread of useful technologies.

Inputs are needed for output. Hence, the right inputs should be available at the right time and place at affordable costs. Input supply systems should become farmer-friendly and also controlled by Farmer Self Help Groups to the extent possible. Quality standards should be enforced. The package of technology to be effective must be accompanied by an appropriate package of services in the areas of extension and input supply.

Energy is a key input. The energy sources needed by farm families, both electricity and diesel, should be available in a reliable manner and at affordable price. In addition, solar energy could be tapped where economical. There should be a Panchayat-led integrated energy generation and management movement.

ICT should be effectively harnessed to empower rural men and women through the Every Village a Knowledge Centre Movement with farming system and season specific information.

Market Reforms

Ultimately, it is only opportunities for assured and remunerative marketing that will determine the economic viability of farming both as a way of life and a means to livelihood. Market reform should begin with production planning, so that every link in the cultivation-consumption-commerce chain receives adequate and timely attention.

The existing State Land Use Boards are not equipped to provide proactive advice to farmers on land use planning. There is an urgent need for a National Land Use Advisory Service, linked to State and Block Level Land

Use Advisory Services on a hub and spoke model. These can be virtual organisations with the capacity to link land use decision with ecological, meteorological and marketing factors on a location and season specific basis. The National Land Use Advisory Service can be linked to the proposed Indian Trade Organisation (ITO) as described later. It should have continuous contact with IMC, ISRO, Agricultural Universities and Departments, Commodity Exchanges and Futures Markets, APEDA, Commodity Board and all credible national and international sources of information on domestic and international markets. The Land Use Advisory Service should cover crop and animal husbandry, horticulture, inland fisheries, forestry and agro-forestry, and have the capacity to proactively assess potential surpluses and shortages of essential commodities.

The State and Block level Land Use Advisory Service Organisations should have appropriate linkages to data providers at the State and local levels. The Block level Advisory Service can be located in the ISRO supported Village Resource Centres under the Mission 2007 Every Village a Knowledge Centre Movement.

Land use advice should be based on the quantity and quality of the available irrigation water and temperature. The National and State Level Land Use Advisory Service should also monitor the state of crops and issue timely warning on emergent surpluses and shortages. If this is done, situations like the recent onion shortage crisis can be avoided. Without economically and ecologically sound and proactive advice on land and water use, farmers will have to fend for themselves in taking decisions on what to grow. With the spread of agricultural globalisation, this can be disastrous to the economic health of farmers.

Thus, the National Agricultural Year Programme of 2006-07 should

concurrent with soil health enhancement, augmentation of the area under irrigation coupled with efficiency and equity in water use, credit and insurance reform, technology upgradation and dissemination, and farmer-centered marketing. The aim of the Agricultural Renewal Programme will be enhanced productivity per units of arable land and irrigation water, higher profitability, increased on-farm and off-farm employment opportunities and long-term environmental sustainability. Distress hot spots should receive priority attention.

In a globalised economy, we should develop appropriate institutional instruments and policies to safeguard the livelihood security of nearly 70% of our population who depend on crop and animal husbandry, inland and marine fisheries, forestry and agroforestry and agro-processing for their work and income security. Risk Mitigation and Price Stabilization Funds will be needed. All Technology Missions and the Small Farmers' Agri-business Consortium (SFAC) should be restructured under competent professional management. Each Mission should have measurable time-bound goals. The Mission Director, an eminent professional, should be in position at least for a period of 5 years.

Farmers need appropriate institutional support to enhance their agricultural competitiveness. Institutional support to confer on small farm families the power and economy of scale is vital to enhance the productivity and profitability of small farms. Multiple livelihood opportunities are essential for ensuring the income security of resource-poor farming families, particularly in rainfed semi-arid, arid and hill regions. Mixed farming and improved post-harvest technology leading to value addition to primary products can help to achieve this goal.

An Indian Trade Organisation

The Union Minister for Commerce and Industry and the Government of India have done a commendable job in safeguarding the

interests of our farm women and men in the recent negotiations at Hong Kong. They have put together a broad-based coalition of the concerned. Postponement of agreement in agricultural negotiations will however prolong the unequal trade bargain entered into at Marrakesh in 1994. As a national self-empowerment measure, we should consider establishing an Indian Trade Organisation (ITO) and our own boxes for domestic agricultural support on the model of WTO's Blue, Green and Amber Boxes. The value of our annual agricultural production including livestock in 2002-03 was Rs.5,60,516 crore¹. The value of our exports of farm commodities in 2002-03 was Rs.34,654 crores (6.18% of total agricultural production)². Thus only a small proportion of our agricultural commodities enter the global market, since with a population of over a billion, there is a large home market. Hence, we must segregate the very modest support we extend to our farmers into two groups - those which are of the nature of life and livelihood saving support to small farm families, and those which could be considered as trade distorting in the global market. The Indian Trade Organisation (ITO) can be virtual organisation, specializing in WTO affairs. It can serve as a brain and information bank for enabling Government to take informed and proactive decisions. It can provide timely advice on potential surpluses and shortages in major agricultural commodities, by maintaining a trade watch. The Indian Trade Organisations should serve as a friend and guide to small farm families and should provide proactive advice on land use and crop planning. The ITO will help to build a long-term memory system in relation to home and external trade and help checkmate adverse global trade trends by stimulating timely national action.

Knowledge Connectivity

Knowledge Connectivity should become

fundamental to physical connectivity under the Bharat Nirman programme. The revised Bharat Nirman document contains the following statement regarding Knowledge Connectivity.

"The Government is committed to expanding rural connectivity through a slew of measures so that rural users can access information of value and transact business. This will include connecting block headquarters with fiber optic network, using wireless technology to achieve last mile connectivity and operating information kiosks through a partnership of citizens, Panchayats, Civil Society Organisations, the Private sector and Government."

The National Alliance for Mission 2007: Every Village a knowledge Centre facilitated by NCF provides a platform for partnership in achieving the goal of knowledge connectivity under Bharat Nirman. It is essential that Government reviews its policy towards Community Radio, since a combination of the Internet /cell phone and community radio will help to take timely information to farmers even in the remotest parts of the country. The last mile and last person connectivity can be achieved only through a combination of internet and either cell phone or FM radio.

In 1995, the Supreme Court of India ruled, "airwaves or frequencies are public property". The principle is the same as for seawater enshrined in the immortal Dandi March of Mahatma Gandhi. A successful merger of tele-centre technologies and the radio will help to usher in an era of knowledge revolution in rural India. Efficient disaster management and mitigation will be greatly facilitated by such a step. We therefore recommend that Village Knowledge Centres (VKC) may be permitted to apply for a community radio license. The eligible organisations should also include Gram Sabhas Cooperatives, ICT-Self Help Groups

promoted by NABARD, NGOs and Educational Institutions.

In an era of globalisation and bottom-up approaches to development, Community Radio can act as an important medium in strengthening grassroots and mainstream linkages, act as a true people's medium and contribute towards creating a vibrant, aware and informed community, the hallmark of a true democracy. As one of the signatories to the process of the World Summit on the Information Society, India is committed to ensure a political atmosphere that enable the creation of a "people-centred, inclusive and development oriented Information Society, where everyone can create, access, utilize and share information and knowledge. Extending to the citizens of India, a right over airwaves would be an essential measure in both these regards.

A Community Radio Station attached to VKCs may be permitted to cover an area of approximately 110 kilometers radius. In the case of hilly areas as well as fishing zones in oceans, a wider coverage will be needed. Broadcasting using transmitters upto half watt should be delicensed. The Community Radio license should follow the programme and commercial codes of the All India Radio. A forward-looking Community Radio Policy which will be in keeping with the spirit of the Right to Information Act is the need of the hour. Knowledge and skill empowerment of farm families is essential for achieving the goals of the Year of Agricultural Renewal.

Overall economic growth rates have less meaning if we do not look after the economic health and survival of over 60% of the population. The programme covered in this article can help to launch the country on the path of an ever-green revolution in agriculture characterized by productivity improvements in production without associated ecological harm.

Banking

Banking in India has its origin as early as the Vedic period. It is believed that the transition from money lending to banking must have occurred even before Manu, the great Hindu Jurist, who has devoted a section of his work to deposits and advances and laid down rules relating to rates of interest. During the Mogul period, the indigenous bankers played a very important role in lending money and financing foreign trade and commerce. During the days of the East India Company, it was the turn of the agency houses to carry on the banking business. The General Bank of India was the first Joint Stock Bank to be established in the year 1786. The others which followed were the Bank of Hindustan and the Bengal Bank. The Bank of Hindustan is reported to have continued till 1906 while the other two failed in the meantime. In the first half of the 19th century the East India Company established three banks; the Bank of Bengal in 1809, the Bank of Bombay in 1840 and the Bank of Madras in 1843. These three banks also known as Presidency Banks, were Independent units and functioned well. These three banks were amalgamated in 1920 and a new bank, the Imperial Bank of India was established on 27th January 1921. With the passing of the State Bank of India Act in 1955 the undertaking of the Imperial Bank of India was taken over by the newly constituted State Bank of India. The Reserve Bank which is the Central Bank was created in 1935 by passing Reserve Bank of India Act 1934. In the wake of the Swadeshi Movement, a number of banks with Indian Management were established in the country namely, Punjab National Bank

Ltd., Bank of India Ltd., Canara Bank Ltd., Indian Bank Ltd., The Bank of Baroda Ltd., The Central Bank of India Ltd. On July 19, 1969, 14 major banks of the country were nationalised and on 15th April 1980 six more commercial private sector banks were also taken over by the government. Today the commercial banking system in India may be distinguished into

Public Sector Banks

- a. State Bank of India and its associate banks called the State Bank group
- b. 20 nationalised banks
- c. Regional Rural Banks mainly sponsored by Public Sector Banks

Private Sector Banks

- a. Old generation private banks
- b. New generation private banks
- c. Foreign banks in India
- d. Scheduled Co-operative banks
- e. Non-Scheduled banks

Co-operative Sector

The Co-operative banking sector has been developed in the country to supplement the village money lender. The co-operative banking sector in India is divided into 4 components.

1. State Co-operative Banks
2. Central Co-operative Banks
3. Primary Agriculture Credit Societies
4. Land Development Banks
5. Urban Co-operative Banks
6. Primary Agricultural Development Banks
7. Primary Land Development Banks
8. State Land Development Banks

Development Banks

1. Industrial Finance Corporation of India (IFCI)

India Financial Statement

	1954-55	1955-56	1956-57	1957-58
Revenue Statement				
Tax Revenue	11 11	11 11	11 11	11 11
Grants-in-Aid	11 11	11 11	11 11	11 11
Grants	11 11	11 11	11 11	11 11
Interest	11 11	11 11	11 11	11 11
Dividend	11 11	11 11	11 11	11 11
Other Revenue	11 11	11 11	11 11	11 11
Total Revenue	11 11	11 11	11 11	11 11
Capital Revenue	11 11	11 11	11 11	11 11
Capital Grants	11 11	11 11	11 11	11 11
Expenditure Statement				
Capital Expenditure	11 11	11 11	11 11	11 11
Current Expenditure	11 11	11 11	11 11	11 11
Interest	11 11	11 11	11 11	11 11
Grants	11 11	11 11	11 11	11 11
Other Expenditure	11 11	11 11	11 11	11 11
Total Expenditure	11 11	11 11	11 11	11 11
Surplus	11 11	11 11	11 11	11 11
Deficit	11 11	11 11	11 11	11 11

Stock Market, 2006-07: Outlook and Strategy

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Indian stock markets drew more attention in 2006 with an unusual fluctuation that saw confidence levels dipping to new lows. While 2006 began with the Bombay Stock Exchange Sensitive Index (Sensex) nearing a new milestone, having crossed 10,000 points, many experts were quick to question the sustainable nature of such a growth. Fundamentally strong, the economy was the key driver but rising interest rates and soaring global crude oil prices applied brakes on its acceleration.

Closer to 2006, many leading investment bankers had raised issues like a high current account deficit, then close to a 15-year high of 2.2% of GDP to widen further and mar the party. A slowing capital inflow was already putting stress on Indian rupee. At this juncture, a firm domestic demand for oil was inflating its oil import bill. Though stock markets were on an upswing, these issues were boiling in the background. In fact, fundamentals such as favourable long term demographics, strong corporate fundamentals, better liquidity that helped consumption and private sector growth and a solid GDP growth trajectory of 6-8% drew investments into India, which remains a domestic-demand driven economy.

Beginning of 2006 calendar year, Sensex valuations were a reasonable at a multiple of 13. Compared to emerging markets like Russia and Brazil, India looked well in line or at times slightly overpriced. The P/E multiple and real earnings growth were easily the highest. Indian retail investors in general remained

underinvested in equities and the bullishness in indices attracted them more to the market. There were many growth sectors that seem richly valued while there were many sectors such as banking, IT and mining as overweight in many portfolios.

However, Sensex continued its upward journey for 2006 despite facts being loaded against it. In May, the seemingly endless journey was cut short as the month proved yet again to be the nemesis of markets. What seemed as a reaction to a CBDT circular on taxing the FII's, the Indian markets felt the heat as a selling frenzy began. Trading had to be suspended following an unprecedented selling pressure. From a peak of 12,000 points, Sensex crashed below 9,000 as many investors, who had created long positions, sold to cut down losses. It once again showed the immaturity of Indian investors who now began talking about 'Bear' market and the need to get of out it.

FII's who were struggling to reduce losses in emerging markets and mutual funds who saw large redemptions were net sellers. Many dubbed this as a sign of foreign investors deserting India. Statistically speaking, net selling by institutional funds (with a total asset size \$26bn) was far higher at \$556 million in April 2006, the highest since 1995. Both emerging market funds and country funds sold heavily. They improved this record in May by selling equities worth \$753 million. However, the May 2006 correction was crucial as the BSE Sensex went down 15% in just 7 trading days to take away much of the

criticism that it was overvalued and overrated. This helped most analysts to maintain a positive stance on the Indian economy. Meanwhile, India's six core industries clocked a growth of 8.8% as industrial production rose to 7.7%.

After the mayhem, sanity returned. As volatility remained above surface, investors calmed down to take stock of the situation. Many realized that markets were attractive enough to buy since the PE multiples were attractive and there were much value left in many stocks. As noted earlier, among Asian emerging markets, India was one of the most undervalued markets till 2003-04, a status it changed during the last year. However, the May 2006 correction has changed the equation to India now being labeled as a market with a very small premium. The series of corrections also acted tempting for larger investors. Since June and July 2006, good corporate results and a stable economic environment have been helping markets to be stable at the present levels. From May levels, the markets have slowly pulled back to around 1,700 levels in Sensex due to steady investments.

Amid this, there are concerns over tight global liquidity and deteriorating trade balance. These may not check India's strong economic growth, say analysts. As India is getting younger and younger, its productivity bounds to rise. The dramatic multiplier effect on our consumption and subsequently on economic growth is tremendous. The per capita income, currently at \$750, promises to reach \$1,000 in another 8 years time.

But going forward, are these secular trends priced appropriately? Analysts react positively. Investments in Indian markets must be seen in marginally a different context. As much as 60% of the GDP is led by domestic consumption whereas others emerging countries are dependent on foreign markets. Indian corporates have been systematically improv-

ing their records in terms of return on equity, corporate governance, various benchmarking and overall competitiveness to stay above the rest. This makes them more attractive.

For the next few months ending the financial year 2007, sectors like FMCG, pharma, retail, media and textiles look attractive in terms of valuations. But let us take a further view on some of the areas where investment would be meaningful. Basically, India, a service driven growth story, has much to offer since we are in the middle of a capital expenditure boom and rapidly expanding outsourcing. Hence Indian companies having bases in domestic consumption story, banking, capital goods and global footprints are worth investing. The rural India is slowly emerging as a force to reckon with in financial sector, FMCG and other basic services such as telecom and aviation sectors focusing on it. It is an untapped and sleeping giant out there. Infrastructure companies offer tremendous value story since rural and urban India is craving for more roads and power. As of now, the year ahead looks stable unless oil prices create further havoc and inflation goes out of control.

Analysts say that it is ironic enough to rate India as a safe haven during any global slowdown. A country with least dependence on global trade, India exports services and projects crucial to global companies. The country continues to sustain the lead in terms of manpower cost and volumes. An abundant supply of young manpower is a credential seldom one can boast of. India's growth will be sustained and may reach greater levels if the government acts on reforms front. Infrastructure, agriculture, taxation and labour laws need immediate attention. Large investments are required for SEZs, ports, airports, roads and irrigation. Meanwhile, more investments are required to update education, health and legal system.

As of now, India remains in focus for the next three years for many funds who are country centric. Top of the list are India country funds, which sustain high cash levels for India investments. Their calculation is that immediate uncertainties that weighed the Indian markets are over. Interest rate hikes seem to have reached finishing line since inflation is now under control. Any fear of a weak monsoon was far fetched as most of the country received excess rainfall, often resulting in floods. Critically, this year, the agriculture is expected to make a significant and a positive contribution to GDP growth.

If you are looking to invest in India in 2007, there is no better time than now. The country has survived the worst since May 2006, more importantly it escaped the massive capital outflows from emerging markets, and still looks very promising in terms of valuation. As analysts noted, even the Indian derivative markets are about to buck the pessimist overtone.

At present, going by the key fundamentals most experts believe that for next 6-8 months there is very limited downside risk at the current levels. So go ahead and pick up your choicest blue chips and lot more of mid-cap because these are quite attractive now.

According to a Morgan Stanley report technically speaking towards third quarter of 2006-07, an intermediate rally is expected and that would sustain the Sensex to reach 14,700 points by June 2007. As it noted, India had been the best performer in the emerging markets rally so far giving a handsome return of 45.6%, in US dollar terms, followed by Indonesia. The research further said that India was amongst the cheapest Asian emerging markets both on trailing and prospective terms. If India is ranked the second most volatile market after Korea, it has also delivered a 7% CAGR (in US dollar-terms) for the last 15 years. In short, it is the second best performing Asian emerging market.

Commodity Market

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For those who want to diversify their portfolios beyond shares, bonds and real estate, investment in commodities can be a good option. Commodities have the potential to become a separate asset class for market-savvy investors, arbitrageurs and speculators.

In many ways, Commodity markets operate just like public market places or auctions. For instance, prices of commodities on an exchange are determined solely by supply and demand conditions, which is no different from the way in which prices are determined in more familiar markets. In addition, commodity margins are

analogous to the down payment one generally makes in connection with a real estate transaction. Once certain facts are understood, one can see that commodity markets are an integral part of a well-run economy.

The primary distinction between a futures market and a market in which actual commodities are bought and sold, either for immediate or later delivery, is that in the futures market one deals in standardized contractual agreements only. These agreements (more formally called futures contracts) provide for delivery of a specified

amount of a particular commodity during a specified future month, but involve no immediate transfer of ownership of the commodity involved.

The purpose of a commodity exchange is to provide an organized marketplace in which members can freely buy and sell various commodities in which they have an interest. The exchange itself does not operate for profit. It merely provides the facilities and ground rules for its members to trade in commodity futures, and for non-members also to trade by dealing through a member broker and paying a brokerage commission.

Indian Scenario

Commodity markets in India are still in their initial stages of development. The essential contributors of this scenario include stringent regulatory restrictions, intermediate ban on commodity trading and policy interventions by the government. To increase the efficiency of the markets the Forward Markets Commission (FMC), the governing body of commodities trading in India, has taken several initiatives for the establishment of national level multi-commodity exchanges in India.

These exchanges serve as platforms for facilitating transparent trading, trading in multiple commodities, electronic delivery systems and efficient regulatory mechanisms, creating a world class environment for Indian traders. In order to sustain the increasing volumes in commodities trade, the need for proper clearing and settlement systems, warehousing facilities and efficient pricing mechanisms has been identified. With the recent boom in commodities markets, Indian participants are gearing up for exploiting the potential opportunities in the future.

The major commodity markets are in the United Kingdom and in the USA. In India there are 25 recognised future ex-

changes, of which there are three national level multi-commodity exchanges. After a gap of almost three decades, Government of India has allowed forward transactions in commodities through Online Commodity Exchanges, a modification of traditional business known as Adhat and Vayda Vyapar to facilitate better risk coverage and delivery of commodities. The three exchanges are:

- * National Commodity & Derivatives Exchange Limited (NCDEX)

- * Multi Commodity Exchange of India Limited (MCX)

- * National Multi-Commodity Exchange of India Limited (NMCEIL)

All the exchanges have been set up under overall control of Forward Market Commission (FMC) of Government of India. Commodity markets are of great help not only for their participants but also the economy as a whole. The twenty year bear market for commodities has drastically reduced the prices of many commodities to their lowest levels. The present shift in trend in commodity trading complemented by the global increase in demand will certainly hold a promising future for the investments in this segment.

Universal Scenario

Secular decline and variability in agricultural commodity prices continue to be matters of concern, not only for those developing countries dependent on commodity export earnings, especially from tropical crops, but also for those developing countries increasingly reliant on food imports for their food security. Secular relative decline in agricultural commodity prices is expected as technological progress reduces costs and induces supply expansion at a faster rate than population and income growth expand demand.

The price inelastic demand for agricultural commodities means that

prices lead to lower export earnings for developing country exporters. Many developing countries, and especially certain least developed countries, remain dependent for a significant share of their export earnings on one or a few agricultural exports. The

impact of world commodity price variability on producers and consumers and the effectiveness of price signals in bringing about adjustments in supply and demand depend on the extent to which world market prices are transmitted to domestic markets. ■

The Millennium Development Goals and Indian Women — Promises to keep, miles to go

Ammu Joseph
Bangalore

World leaders greeted the new century and millennium with the Millennium Declaration adopted by the United Nations General Assembly in September 2000. The 147 heads of state and government who attended the Millennium Summit that month also accepted the Millennium Development Goals (MDGs) emerging from the Declaration as a blueprint for reducing poverty and improving people's lives across the globe. All 191 UN member states, including India, have since pledged to work towards meeting these goals in stages during the period up to 2015.

The eight goals, as well as the specific targets and indicators included under each, have come under legitimate criticism from several quarters for their many limitations. One of the serious shortcomings of the MDGs, for example, is the compartmentalisation of women within the goals and the narrow vision of gender concerns in the context of development reflected in the targets and indicators listed under each goal.

Two of the goals are gender specific: promote gender equality and empower women (MDG 3) and improve maternal health (MDG 5). But clearly, as the Millennium Declaration and several other UN agreements acknowledge, the other six — eradicate extreme

poverty and hunger; achieve universal primary education; reduce child mortality; combat HIV/AIDS, malaria and other diseases; ensure environmental sustainability; and create a global partnership for development — are also intimately linked to gender equality and women's empowerment.

The targets and indicators highlighted under the gender-specific goals further reduce their scope. For example, the only target mentioned under MDG 3 suggests that gender equality and women's empowerment can be achieved simply by eliminating gender disparity in primary and secondary education (preferably by 2005), and at all levels by 2015. Equally inadequate are the four indicators of equality and empowerment associated with this goal: the ratio of girls to boys at each educational level, the sex ratio in literacy among 15-24 year olds, women's share in wage employment in the non-agricultural sector, and the proportion of seats held by women in the national Parliament.

India's Country Report 2005 on the MDGs acknowledges not only that the goals are interlinked but that gender equality is a vital aspect of each. According to the Report, achievement of gender equality depends upon the integration of gender-related tar-

gets within each of the goals and, by the same token, achievement of all the goals is critically dependent upon the attainment of gender equality. The Report also mentions that India's Tenth Five-Year Plan (2002-2007) has not only taken note of the MDGs and included a number of targets to be achieved during the Plan period, but that these internal targets generally aim higher than the internationally agreed upon ones.

This is just as well since India's share of global responsibility towards meeting the MDGs is fairly substantial. The country has the dubious distinction of accounting for a quarter of all maternal deaths and nearly a quarter of all deaths of children under five across the globe, 34 per cent of the world's underweight children, and 28 per cent of the world's poor who live on less than US\$ 1 a day.

India's rank in the Human Development Index formulated by the United Nations Development Programme (UNDP) is not very encouraging either: it occupies the 127th position among 177 countries in 2005. This low ranking (with just 50 countries in a worse state of human development) has remained constant for three years, with the UNDP's Human Development Reports of 2003 and 2004 placing it at the same position. The country's ranking on the Gender Development Index (first introduced in 1995 to focus on the gender aspects of human development) improved marginally from 103 in 2003 and 2004 to 98 among 140 countries in 2005. Significantly, India does not even figure in the UNDP's Gender Empowerment Measure (GEM), presumably on account of the paucity of gender-disaggregated data on women's roles and positions in government, management, the professions and technical fields.

At this point, nearly half way into the 15-year period within which the MDGs are supposed to be fulfilled (at least to the extent prescribed by the targets), and close to the end of the 10th Plan period, how close is In-

dia to meeting its international obligations symbolised by the MDGs, not to mention achieving its own targets?

Maternal health

Take, first, the simpler of the two gender-specific MDGs and its accompanying target: improving maternal health by reducing the maternal mortality ratio by three quarters. India's maternal mortality ratio (MMR) is currently among the highest in the world; only about 30 countries across the globe – most of them among those included in UNDP's "low human development" category — have a worse record (India is placed close to the bottom of the "medium human development" category). According to India's Country Report, in order to achieve MDG 5, the MMR has to be reduced from the estimated 437 deaths per 100,000 live births in 1991 to 109 by 2015. The latest MMR figure quoted by the Report is 407 for 1998, although calculations by United Nations agencies, based on the most recent data reported by national authorities, peg it considerably higher at 540 in the period up to 2003.

In any case the prospects for cutting the prevailing MMR by three-quarters over the next few years do not seem very bright. According to an editorial in the Medical Journal Armed Forces India of July 2005, the National Health Policy of 1982 aimed at reducing the MMR from over 400 then to less than 200 by the year 2000. Going by figures from the Registrar General of India (RGI), quoted in the editorial, not only did the MMR remain 407 until the turn of the century, but evidence suggests that it has not changed significantly since.

This is not surprising considering the country's record in the proportion of births attended by skilled health personnel (the second of the two indicators mentioned under this goal). By the government's own admission, this has increased from 25.5 per cent in

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This is not surprising considering the country's record in the proportion of births attended by skilled health personnel (the second of the two indicators mentioned under this goal). By the government's own admission, this has increased from 25.5 per cent in

1992-93 to 39.8 per cent in 2002-03. Although the Country Reports suggests that this is an encouraging trend that can help reduce chances of maternal death, such slow improvement — 14 per cent over a decade — appears unlikely to help India meet the MDG target of reducing maternal mortality appreciably in the less than ten years left.

It is also important to note the inter-state differences in MMR which, according to the RGI, range from 87 in Kerala (far below the national average as well as the MDG-based target of 109) to 707 in Uttar Pradesh and 739 in Orissa (considerably higher than the national average and nearly seven times the MDG target). Unless the latter states, along with Rajasthan (607), Madhya Pradesh (498) and Bihar (451), rapidly and effectively improve their performance on this front, the goal of improving maternal health in the country may remain unfulfilled well beyond 2015.

Gender equality

With the goal of promoting gender equality and women's empowerment having been reduced within the MDGs to eliminating gender disparity in education, achieving this sole target under goal number three may be more feasible. According to the Country Report, at the beginning of the decade the proportion of females to males was 78:100 in primary education, 63:100 in secondary education and 58:100 in higher/tertiary education. The government seems fairly upbeat about the possibility of achieving the limited target of ensuring that there is no gender disparity in education by 2015. The Report puts gender parity at the primary level at about 88 per cent for the whole country but highlights the fact that two states (Sikkim and Meghalaya) have already reached parity while the majority of the rest follow close behind. In addition it points to increased enrolment and decreased drop-out rates among girls at various levels.

The Country Report also highlights India's record with regard to the other indicators listed under MDG 3. For instance, it puts the female literacy rate at just over 53 per cent in 2001 (although the figure revealed by the Census of India, 2001 is a little above 54 per cent and UN agencies, working with national estimates, record it at a little below 48 per cent). According to the Report, the ratio of literate women to men is 71:100.

However, in terms of both female literacy and gender parity in education, inter-state variations will have to be tackled if women's educational disadvantage is to be actually eliminated on the ground. For example, a number of states are lagging way behind in female literacy, with Bihar and Jharkhand bringing up the rear at just over 33 and 39 per cent respectively, and states like Jammu & Kashmir (41.8%), Uttar Pradesh (42.9%), Arunachal Pradesh (44.2%) and Rajasthan (44.3%) also trailing well below the national average, which in itself is hardly a satisfactory benchmark.

According to the Report, during 1999-2000 the share of Indian women in wage employment in the non-agricultural sector — the third indicator under MDG 3 — was just over 15 in rural areas and approximately 16.6 in urban areas. And the proportion of seats held by women in Parliament — the fourth indicator — is abysmally low at just a little over 9 per cent (averaging the numbers in the Lok Sabha and the Rajya Sabha in 2004). Clearly the country has many miles to go before it achieves even the limited vision of gender equality and women's empowerment outlined by MDG 3.

Child mortality

Although the Country Report begins by acknowledging that gender equality is a prerequisite for the achievement of all the MDGs, it stops short of seriously addressing gender-related factors in its discussion of other goals.

Take, for instance, MDG 4: reduce child mortality. The specific target is to "reduce by two thirds the mortality rate among children under five."

According to the Human Development Report 2005 (HDR 05) India currently accounts for 2.5 million child deaths annually, which translates into approximately one fifth of the world total of 10.5 million. In other words, of every five children who die in the world, at least one is an Indian child. What is more, one in every 11 children in this country dies in the first five years of life because of lack of access to low technology, low cost interventions. To make matters worse, malnutrition, which has barely improved over the past decade, affects at least half of all Indian children.

Child mortality has everything to do with the status of women but there is no mention in the MDGs or in India's Country Report of the gender aspects of the problem. Take, for instance, gender-related differences in child death rates. According to the HDR 05, in India "girls aged one to five are 50 per cent more likely to die than boys." This leads to the phenomenon of "missing" girls: "In this country alone as many as 130,000 young lives are lost each year because of the disadvantage associated with being born with two X chromosomes." (HDR 05) What is more, female mortality rates remain higher than male rates up to age 30, reversing normal global demographic patterns.

Most reasons for the higher rate of child mortality among girls have to do with gender. As the latest HDR points out, the gender differences in child deaths reflect a widespread preference for sons, particularly but not only in the northern states of the country. Less valued than their brothers, girls are often taken to health facilities in more advanced stages of illness, taken to less qualified doctors and have less money spent on their nutrition and health care.

There are additional gender-related rea-

sons for India's scandalously high, though slowly reducing, child mortality rate. The low social status and consequent educational disadvantage suffered by women have a direct bearing on their own health as well as that of their children. For example, about one-third of Indian children are underweight at birth and that is directly related to their mothers' poor health.

Women's education is, of course, important in itself – because women have or should have equal right to education. But it is also closely associated with child mortality. As the HDR 05 points out, the under-five mortality rate is more than twice as high for children of illiterate mothers as for those whose mothers have completed at least middle school. Apart from being less prone to under-nutrition, better educated mothers are more likely to use basic health services, have fewer children, avoid having children too early, and space births. And all these factors contribute to child survival.

So, clearly, as India's Country Report initially points out, all the MDGs are closely connected and gender inequality impacts almost all of them. Reducing child mortality (MDG No. 4) cannot realistically be separated from MDG 1 (eradicate extreme poverty and hunger) and MDG 2 (achieve universal primary education), besides the two gender-specific goals: MDG 3 (promote gender equality and empower women) and MDG 5 (reduce maternal mortality). Actually, even MDG 6 (combat HIV/AIDS, malaria and other diseases) is linked: for example, the growing number of women who are HIV+ suggests that more children at risk from the virus – and, as is well known, women's vulnerability to HIV/AIDS also has to do with gender disparities.

In spite of these connections between gender and child mortality, India's Country Report on the MDGs glosses over the obvious and apparently growing gender gap in the Under Five Mortality Rate (USMP). The World

is clear in some of the graphs and tables in the section on child mortality. For example, the graph presenting data on the USMR by place of residence and sex shows that the overall rate has gone down in both rural and urban areas between the periods 1988-1992 and 1998-2002. However, while the difference between male and female child death rates has remained more or less the same in rural areas during the two periods (higher by approximately 17 for females), the even more distressing fact is that the difference in urban areas has risen from one in the earlier period to nine in the later period. In other words, the USMR for girls actually increased in urban areas over that decade. All the Country Report has to say about this is: "More declines are noticed for males than for females."

The growing gender gap is evident in the Infant Mortality Rate (IMR), too. It is true, as the Report states, that the IMR has been slowly but steadily falling over the decades, from 114 in 1980 to 60 in 2003. What is not highlighted in the document is the fact that the gap between male and female child deaths has actually risen in the new millennium. It is clear from the table and graph presenting IMR data by sex that the gap hovered around two between 1980 and 2000 and then jumped to seven by 2003. Despite this disturbing development, the Report merely says, "The rate of decline is more pronounced in the case of male as compared to female."

What is more, the alarming decline in the sex ratio of children in the 0-6 age group over the past decade and more is dealt with – indeed, downplayed – in just one paragraph at the very end of the chapter dealing with MDG 4. The sex ratio of females to males in the Indian population is among the most imbalanced in the world: not only has it long been awkwardly and unnaturally skewed, it has also been declining for sev-

eral decades – from 972 in 1901 to 927 in 1991. The shocking revelation of the Census of India, 2001 was that while the sex ratio among the general population stood at 933 females to 1000 males (up from 927 in 1991), the sex ratio among the youngest section of the population – 0-6 years – had dropped sharply to 927 (down from 945 in 1991).

The Union Minister for Health recently acknowledged that the number of "missing girls" in the country had risen from 25 million in the 1990s to 35 million in the new millennium. What is more, the under-six sex ratio is most unfavourable in prosperous states like Punjab, Haryana, Gujarat and Maharashtra. Not only do urban centres like Delhi and Chandigarh also have an adverse sex ratio but in the capital city the problem appears to be most acute in the more affluent areas. It appears that the falling sex ratio has increasingly become a problem among the urban, affluent and educated sections of the population, although it is also quickly spreading in other areas. According to the Census authorities, among the factors contributing to the dismal situation are sex-selective abortion, female infanticide, and neglect of girl children.

Considering the evidence, it is remarkable that India's Country Report on the MDGs does not list gender discrimination among the principal causes of child mortality in the country. With the data clearly suggesting that it is an important factor contributing to the high rate of child death, it is obvious that MDG 4 cannot be met without tackling the problems that render the girl child in India an endangered species.

Indeed, according to the HDR 05, reducing gender inequality would have a catalytic effect on cutting child deaths: if India closed the gender gap in mortality between girls and boys aged one to five, that would save an estimated 130,000 lives, reducing the

country's overall child mortality rate by a substantial five per cent. Instead, the document reveals, India is widely off track for meeting the child mortality target, with the annual rate of decline having slowed down between the 1980s and the 1990s by almost one fifth – from 2.9 to 2.3 per cent.

Development, security, human rights for all

It is worth noting that, unfortunately and ironically, this has happened during the decades when the country ostensibly began to move into the premier league of world economic growth, with high technology exports soaring and the huge Indian consumer class becoming a magnet for foreign investors.

The World Summit held at the UN headquarters in New York in September 2005, to mark the fifth anniversary of the adoption of the Millennium Declaration and Development Goals, was expected to result in major decisions on critical issues such as ending poverty, promoting human rights,

fighting terrorism and helping countries recover from deadly conflicts of various kinds. The main themes of the Summit were: Freedom from Want, Freedom from Fear and Freedom to Live in Dignity.

In a report titled "In Larger Freedom: Towards Development, Security and Human Rights for All," released ahead of the Summit, UN Secretary General Kofi Annan said the "world must advance the causes of security, development and human rights together, otherwise none will succeed. Humanity will not enjoy security without development; it will not enjoy development without security; and it will not enjoy either without respect for human rights."

While that is certainly true, it is equally true that neither security nor development nor human rights can be achieved unless women's rights to all three are fully recognised, respected and realised. Clearly women, too, have a right to Freedom from Want, Freedom from Fear and Freedom to Live in Dignity. ■

The Corruption Scene in India

N. Vittal

Formerly Central Vigilance Commissioner

Corruption is lack of integrity. This could be lack of intellectual integrity, financial integrity or moral integrity. In the context of public life, it is the lack of financial integrity which is prominently under discussion. The corrosive negative impact of corruption is being increasingly realized. World Bank defined corruption as use of public office for private gain. It is increasingly therefore, in the context of public affairs and governance of the country that the

issue of corruption is being discussed and highlighted.

The United Nations had adopted in the year 2003, the Anti-Corruption Convention. This was preceded by the 1997 adoption of the Anti-Corruption Convention by the OECD countries. The fight against corruption as an important item in the agenda of the international scene emerged especially after the end of the cold war.

So long as the cold war lasted,

world was divided between two super powers, the United States and the soviet Union, in international affairs, particularly when it comes to financial assistance and loans from multilateral aid agencies like the World Bank etc. are concerned, corruption did not figure prominently as a significant issue. In those days what was important was the geo strategic consideration of the super powers. Some of the developing countries were led by notoriously corrupt dictators. The World Bank was able to fund them because the attitude of the super powers was, 'it is true that so and so may be the son of a bitch, but he is our son of a bitch'.

Corrosive Impact

But after the end of the cold war the corrosive impact of corruption is being increasingly realized. It is seen to be anti economic development, anti national and anti poor. The need for checking corruption in global business also emerged more or less simultaneously after the end of the cold war because, in the globalised economy, the need for ensuring good corporate governance was soon realized. Globalization involves the movement of four economic parameters, namely, (i) physical capital in terms of plant and machinery, (ii) financial capital in terms of the money invested in emerging markets, (iii) labour and (iv) technology move across national borders. International investors are increasingly realizing that it is not enough to have good corporate management, but it is necessary to have good corporate governance. Corporate management involves handling the resources available to a manager, namely, financial resources, physical resources and human resources and time in the best possible manner to achieve goals like increased profitability, market capitalization and so on. Nevertheless, it is possible for a company to have a good corporate management but fail to be

honest in its transactions leading ultimately to disaster. Corporate governance, refers to the moral framework, the ethical framework and the value framework within which business decisions are taken. The collapse of the South East Asian tiger economies in 1997 followed by the New York stock exchange collapse of Fortune 500 companies like Enron, Worldcom and leading firms like Arthur Anderson showed that if there was no good corporate governance, then the healthy business cannot take place.

We are therefore living in a world where when it comes to public governance, the need for integrity and checking corruption is increasingly realized as very valuable. Even in business, the need for honesty is being underlined by the focus on the principles of corporate governance. Ultimately, corporate governance depends on three elements. First is transparency. Because, without transparency the second element of accountability cannot be enforced and accountability in the case of an enterprise is to ensure that the interest of the shareholders and stakeholders are protected and are not compromised.

It is against this overall context to the issue of corruption globally, we may look at India. When asked about corruption, Indira Gandhi dismissed the question by saying 'corruption is a global phenomenon'. It is true that corruption is a global phenomenon, practically every country has cases of corruption. But then there is a lot of difference between the degree of corruption between countries. The Transparency International, an NGO based in Berlin annually publishes the grading of the countries on the basis of what is called Corruption Perception Index (CPI). According to the 2005 CPI, India ranks at 88 out of the 156 countries. The least corrupt is Finland and the most corrupt country is Bangladesh. China figures at rank 78.

TI 2005 Corruption Perceptions Index

Country	Country rank	2005 CPI Score*	Confidence range**	Surveys used***
1.	Iceland	9.7	9.5 - 9.7	8
2.	Finland	9.6	9.5 - 9.7	9
3.	New Zealand	9.6	9.5 - 9.7	9
4.	Denmark	9.5	9.3 - 9.6	10
5.	Singapore	9.4	9.3 - 9.5	12
6.	Sweden	9.2	9.0 - 9.3	12
7.	Switzerland	9.1	8.9 - 9.2	9
8.	Norway	8.9	8.5 - 9.1	9
9.	Australia	8.8	8.4 - 9.1	13
10.	Austria	8.7	8.4 - 9.0	9
11.	Netherlands	8.6	8.3 - 8.9	9
12.	United Kingdom	8.6	8.3 - 8.8	11
13.	Luxembourg	8.5	8.1 - 8.9	8
14.	Canada	8.4	7.9 - 8.8	11
15.	Hong Kong	8.3	7.7 - 8.7	12
16.	Germany	8.2	7.9 - 8.5	10
17.	USA	7.6	7.0 - 8.0	12
18.	France	7.5	7.0 - 7.8	11
19.	Belgium	7.4	6.9 - 7.9	9
20.	Ireland	7.4	6.9 - 7.9	10
21.	Chile	7.3	6.8 - 7.7	10
22.	Japan	7.3	6.7 - 7.8	14
23.	Spain	7.0	6.6 - 7.4	10
24.	Barbados	6.9	5.7 - 7.3	3
25.	Malta	6.6	5.4 - 7.7	5
26.	Portugal	6.5	5.9 - 7.1	9
27.	Estonia	6.4	6.0 - 7.0	11
28.	Israel	6.3	5.7 - 6.9	10
	Oman	6.3	5.2 - 7.3	5
30.	United Arab Emirates	6.2	5.3 - 7.1	6
31.	Slovenia	6.1	5.7 - 6.8	11
32.	Botswana	5.9	5.1 - 6.7	8
	Qatar	5.9	5.6 - 6.4	5
	Taiwan	5.9	5.4 - 6.3	14
	Uruguay	5.9	5.6 - 6.4	6
36.	Bahrain	5.8	5.3 - 6.3	6
37.	Cyprus	5.7	5.3 - 6.0	5
	Jordan	5.7	5.1 - 6.1	10
39.	Malaysia	5.1	4.6 - 5.6	14
40.	Hungary	5.0	4.7 - 5.2	11
	Italy	5.0	4.6 - 5.4	9

	South Korea	5.0	4.6 - 5.3	12
43.	Tunisia	4.9	4.4 - 5.6	7
44.	Lithuania	4.8	4.5 - 5.1	8
45.	Kuwait	4.7	4.0-5.2	6
46.	South Africa	4.5	4.2-4.8	11
47.	Czech Republic	4.3	3.7 - 5.1	10
	Greece	4.3	3.9 - 4.7	9
	Namibia	4.3	3.8 - 4.9	8
	Slovakia	4.3	3.8 - 4.8	10
51.	Costa Rica	4.2	3.7 - 4.7	7
	El Salvador	4.2	3.5 - 4.8	6
	Latvia	4.2	3.8 - 4.6	7
	Mauritius	4.2	3.4 - 5.0	6
55.	Bulgaria	4.0	3.4 - 4.6	8
	Colombia	4.0	3.6 - 4.4	9
	Fiji	4.0	3.4 - 4.6	3
	Seychelles	4.0	3.5 - 4.2	3
59.	Cuba	3.8	2.3 - 4.7	4
	Thailand	3.8	3.5 - 4.1	13
	Trinidad and Tobago	3.8	3.3 - 4.5	6
62.	Belize	3.7	3.4 - 4.1	3
	Brazil	3.7	3.5 - 3.9	10
64.	Jamaica	3.6	3.4 - 3.8	6
65.	Ghana	3.5	3.2 - 4.0	8
	Mexico	3.5	3.3 - 3.7	10
	Panama	3.5	3.1 - 4.1	7
	Peru	3.5	3.1 - 3.8	7
	Turkey	3.5	3.1 - 4.0	11
70.	Burkina Faso	3.4	2.7 - 3.9	3
	Croatia	3.4	3.2 - 3.7	7
	Egypt	3.4	3.0 - 3.9	9
	Lesotho	3.4	2.6 - 3.9	3
	Poland	3.4	3.0 - 3.9	11
	Saudi Arabia	3.4	2.7 - 4.1	5
	Syria	3.4	2.8 - 4.2	5
77.	Laos	3.3	2.1 - 4.4	3
78.	China	3.2	2.9 - 3.5	14
	Morocco	3.2	2.8 - 3.6	8
	Senegal	3.2	2.8 - 3.6	6
	Sri Lanka	3.2	2.7 - 3.6	7
	Suriname	3.2	2.2 - 3.6	3
83.	Lebanon	3.1	2.7 - 3.3	4
	Rwanda	3.1	2.1 - 4.1	3
85.	Dominican Republic	3.0	2.5 - 3.6	6
	Mongolia	3.0	2.4 - 3.6	4

	Romania	3.0	2.6 - 3.5	11
88.	Armenia	2.9	2.5 - 3.2	4
	Benin	2.9	2.1 - 4.0	5
	Bosnia and Herzegovina	2.9	2.7 - 3.1	6
	Gabon	2.9	2.1 - 3.6	4
	India	2.9	2.7 - 3.1	14
	Iran	2.9	2.5 - 3.3	5
	Mali	2.9	2.5 - 3.6	8
	Moldova	2.9	2.5 - 3.7	5
	Tanzania	2.9	2.6 - 3.1	5
97.	Algeria	2.8	2.5 - 3.3	7
	Argentina	2.8	2.5 - 3.1	5
	Madagascar	2.8	1.9 - 3.7	5
	Malawi	2.8	2.5 - 3.4	7
	Mozambique	2.8	2.4 - 3.1	5
	Serbia and Montenegro	2.8	2.5 - 3.3	7
103.	Cambodia	2.7	2.5 - 3.1	7
	Macedonia	2.7	2.4 - 3.2	7
	Swaziland	2.7	2.6 - 3.1	5
	Yemen	2.7	2.4 - 3.2	5

	Congo, Republic of	2.3	2.1 - 2.6	4
	Georgia	2.3	2.0 - 2.6	6
	Kyrgyzstan	2.3	2.1 - 2.5	5
	Papua New Guinea	2.3	1.0 - 2.6	4
	Venezuela	2.3	2.2 - 2.4	10
137.	Azerbaijan	2.2	1.9 - 2.5	6
	Cameroon	2.2	2.0 - 2.5	6
	Ethiopia	2.2	2.0 - 2.5	8
	Indonesia	2.2	2.1 - 2.5	13
	Iraq	2.2	1.5 - 2.9	4
	Liberia	2.2	2.1 - 2.3	3
	Uzbekistan	2.2	2.1 - 2.4	5
144.	Congo, Democratic Republic	2.1	1.8 - 2.3	4
	Kenya	2.1	1.8 - 2.4	8
	Pakistan	2.1	1.7 - 2.6	7
	Paraguay	2.1	1.9 - 2.3	7
	Somalia	2.1	1.6 - 2.2	3
	Sudan	2.1	1.9 - 2.2	5
	Tajikistan	2.1	1.9 - 2.4	5
151.	Angola	2.0	1.8 - 2.1	5
152.	Cote d'Ivoire	1.9	1.7 - 2.1	4
	Equatorial Guinea	1.9	1.6 - 2.1	3
	Nigeria	1.9	1.7 - 2.0	9
155.	Haiti	1.8	1.5 - 2.1	4
	Myanmar	1.8	1.7 - 2.0	4
	Turkmenistan	1.8	1.7 - 2.0	4
158.	Bangladesh	1.7	1.4 - 2.0	7
	Chad	1.7	1.3 - 2.1	6

Explanatory Notes: *CPI Score relates to perceptions of the degree of corruption as seen by business people and country analysts and ranges between 10 (highly clean) and 0 (highly corrupt).

** Confidence range provides a range of possible values of the CPI score. This reflects how a country's score may vary, depending on measurement precision. Nominally, with 5 percent probability the score is above this range and with another 5 percent it is below. However, particularly when only few sources (*n*) are available an unbiased estimate of the mean coverage probability is lower than the nominal value of 90%.

***Surveys used refers to the number of surveys that assessed a country's performance. 18 surveys and expert assessments were used and at least 3 were required for a country to be included in the CPI.

From the ranking of India in the Corruption Perception Index, it is obvious that India is one of the more corrupt countries in the world. But then, India as a country suffers as a result of corruption. Corruption is anti-economic development, anti national and anti poor. The 1999 UNDP Report pointed

out that if India's corruption level comes down to that of the Scandinavian countries, the GDP will grow by 1.5% and FDI will increase by 12.5%. In the year 2001, the PHD Chamber of Commerce got a study made and it showed that if the corruption level comes down by the standard deviation of

15%, then investment will increase by 300% and GDP will grow by 1.9%. A closer look at the cost of corruption so far as the common man is concerned, is brought out in a study made by the India chapter of the Transparency International and the Centre for Marketing and Media Studies in Delhi. The highlights of the 2005 studies are as follows:

The eleven public services covered in this study are: Police (Crime/Traffic), Judiciary (Lower Courts), Land Administration, Municipal Services, Government Hospitals, Electricity (Consumers), PDS (Ration Card/Supplies), Income Tax (Individual Assesseees), Water Supply, Schools (upto 12th Std.) and Rural Financial Institutions (Farmers).

Rs. 21,069 crore in bribe.

According to the study, common citizens of the country pay a bribe of Rs.21,069 crore while availing one or more of the eleven public services in a year. As high as 62 per cent of citizens think that the corruption is not a hearsay, but they, in fact, have had firsthand experience of paying a bribe or "using a contact" to get a job done in a public office.

Three-fourths of citizens think that the level of corruption in public services has increased during the last one year (2004-2005). Hardly ten percent think that such corruption is on the decline. There are no significant differences among the States in the perceptions about the extent of corruption or in their experience with such corruption.

This study brings out that one-third to half of the compulsions leading to such petty corruption involving the common man could be addressed and also removed with simple initiatives, including introduction of technologies.

Corruption is not merely in the media or in the minds of people as it is sometimes made out, but it is in the system all across the public services, that is what this study high-

lights. And the users and providers of those public services know what needs to be done to address the problem which this study has brought out.

According to this study, relatively Police stands out high on the corruption score. Judiciary, Lower Courts and Land Administration are rated next. The corruption in Government Hospitals is mostly to do with non-availability of medicines, getting admission, consultations with doctors and availing of diagnostic services. Despite reforms, electricity services figure high on corruption score. PDS figures lower in the corruption score because the problem of common man dealing with services is more to do with leakages in the system rather than direct monetary corruption.

Going by the composite ranking of States on corruption involving common citizen and in the context of eleven Public Services, Kerala stands out as the least corrupt State in India. Bihar, on the other, is the most corrupt State. Jammu & Kashmir is next only to Bihar. In fact, perhaps not surprisingly, on all parameters and in the context of all the eleven Services, Bihar stands out far ahead as the most corrupt State. Himachal Pradesh in contrast comes out as being less corrupt when compared to States like Tamil Nadu, Maharashtra or Gujarat. Madhya Pradesh, Karnataka, Rajasthan and Assam, on the other hand, also are on the top of corruption scale.

An overwhelming majority of citizens are vocal about the absence of transparency and accountability in the delivery of these services. They are full of anguish and, at times, some are angry at the state of affairs. It is evident from the annual CMS surveys on corruption that the use of technology at the frontend of those offices is likely to bring down corruption with increase in transparency.

One-sixth of public think that citizen users of Government services themselves are responsible for corruption. They believe that there is no active and sustained c.

society movement. The efforts are sporadic, localized and short-lived and have never acquired a character of a larger movement.

Users of various public services across the country in this study have named seven key factors that stand out as responsible for a widespread corruption in the system. These include-

- * Lack of transparency and accountability in the system

- * Lack of an effective corruption reporting mechanism

- * Lack of honesty in officials in the Government

- * Acceptance of 'Bribe' as a way of life, custom and culture

- * Ineffective anti-corruption institutions, including Police and judiciary

- * Poor economic policies

- * Inadequate training and orientation of Government officials.

Not all states are equally corrupt. The study has also made a ranking of 20 states in India on the basis of corruption and this can be seen as follows.

State	Composite Score	Rank
Kerala	240	1
Himachal Pradesh	301	2
Gujarat	417	3
Andhra Pradesh	421	4
Maharashtra	433	5
Chhattisgarh	445	6
Punjab	459	7
West Bengal	461	8
Orissa	475	9
Uttar Pradesh	491	10
Delhi	496	11
Tamil Nadu	509	12
Haryana	516	13
Jharkhand	520	14
Assam	542	15
Rajasthan	543	16
Karnataka	576	17

MP	584	18
J&K	655	19
Bihar	695	20

This brings us to the basic issue. Is it possible to make India corruption-free? As Central Vigilance Commissioner from September 3, 1998 to September 2, 2002, I faced with this problem day in and day out for four years. Based on my experience, I can argue that there is no need to lose hope. India can become a corruption-free country. The first point to realize is that there have been countries which had this problem like India in corruption, and have been able to turn around and tackle corruption effectively. Britain itself was a corrupt country and one prime minister William Gladstone between 1864 to 1892 became prime minister four times and during his tenure was able to introduce so many changes in law and the system that by the end of his tenure, Britain had become a less corrupt country. In our own life time we have seen Lee Quan Yew as prime minister for more than three decades in Singapore transforming that country as one of the cleanest in the corruption perception index today. Hong Kong was once notorious for corruption. In 1974, the Independent Commission against Corruption (ICAC) was set up and that organization has been able to bring a dramatic change in bringing down corruption in Hong Kong. When in 1997, Hong Kong merged with main land China, there was a fear that the level of corruption may be increased. But on the contrary the mainland Chinese government seems to be keen on learning from Hong Kong and trying to tackle the issue of corruption to maintain the phenomenal economic growth of China. In the Transparency International's Corruption Perception Index list, China emerges as less corrupt than India. Hence the first idea for us to internalize is that

corruption can be tackled. Other countries have done it.

The Vicious Cycle

The second point is to realize the dynamics of corruption and tackle the root causes. Corruption in India is the result of the vicious cycle starting with political corruption leading to bureaucratic corruption, business corruption, corruption in NGOs and finally the criminalization of politics. Corruption in India owes a lot to the fact that the democratic system we have adopted involves political parties collecting funds for election and other purposes. All political parties collect funds in cash. This is black money. Black money is the oxygen for corruption and corruption is oxygen for black money. Hence a political system which is dependent on black money can never take the initiative to fight corruption. It is the political corruption which lies at the starting point of the vicious cycle of corruption in our country. Bureaucratic corruption is a result of a number of factors. The permit licence raj for more than four decades after independence was a fine breeding ground for corruption and the root cause of corruption in the licence era were scarcity of goods and services, lack of transparency, the bureaucratic red tape and consequent need for speed money, the legal cushions of safety that has been created on the very healthy principle that everybody is innocent till proved guilty which was only exploited by the corrupt and finally the tribalism among the corrupt. The business corruption flourish because in the permit licence raj, the only way of influencing the politicians and bureaucrats was by corrupt means. The recent phenomenon of the NGOs also shows that even this sector is not free from corruption. This all pervasive corruption has resulted in the loss of the legitimacy of the state institutions giving rise to criminalization in politics.

The recent directives of the Supreme

Court under which, candidates to election have to declare their criminal background has brought out the shocking fact that a significant percentage of the members of the legislature, may be around 20% have criminal cases framed against them in court. If law breakers become law makers, then how can good governance be ensured?

Corruption is the antithesis of good governance. Good governance involves the rule of law. Corruption corrodes the very process of rule of law and distorts it. In our constitution there are three pillars for governance of the state. The legislature makes the law. The judiciary interprets law and the executive, which is both a permanent bureaucracy as well as the prime minister, chief minister and the council of ministers execute the law. The very presence of law breakers in the legislature results in a very peculiar situation in our country, where laws which are ensured to check, for example, the growth of the black money, are not implemented at all. The 1988 Benami Transaction Prohibition Act still remains a dead letter, because the rules for implementing it have not been framed even after years. Even when a law is passed for preventing money laundering, the laws like Customs Act, Excise Act, Income Tax Act, the evasion of which results in generation of black money which leads to corruption are left out of the schedule of the Act. As a result, the Prevention of Money Laundering Act is an ineffective Act. The Income Tax Act, Excise Act have got so many exemptions that they confer tremendous discretion on the authorities / powers which are misused for corruption. We can therefore think in terms of a systematic approach to tackle the issue of corruption by breaking the vicious cycle starting with political corruption on to bureaucratic corruption, business corruption and criminalization of politics and so on.

For checking political corruption,

starting point should be the attack on black money and reform of the campaign funding laws. To reduce the element of black money, laws like the Benami Transaction prohibition Act which were designed to check the use of black money must be vigorously implemented. The transaction laws like the Income Tax, Customs, Excise should be made almost zero exemption and the transparency element is enhanced. To prevent criminalization of politics, it is necessary to ensure that those candidates against whom criminal charges have been framed in court, where a legal application of the mind of the magistrate had taken place, should be prevented from contesting elections till they are cleared by the courts. Today, the delay in the legal system is exploited by the criminals to enter politics to save themselves. The very delay in the judicial system needs to be tackled and made to work against the criminals in politics. These measures will go a long way in reducing the scope of corruption at the political level. Another reason why corruption flourishes in our country is because our judicial processes are very time-consuming and slow. The conviction rate in our criminal courts is hardly 6%. Therefore, corruption has become a low risk, high profit business in India. To overcome this, the simple method will be to have the time limit of maximum six months for corruption cases in the trial stage and in the appeal stage. Only one appeal must be allowed. Summary trial procedures must be adopted. As a result, criminal cases get their final decision within one year. This will go a long way in ensuring that the corrupt are punished quickly.

A Three-point Strategy

Bureaucratic corruption can be tackled if the following three point strategy is

adopted: (i) simplification of rules and procedures so that the scope of corruption is reduced. It is the complicated rules which give tremendous powers to the bureaucracy in interpretation that is the root of mischief. Simple rules can be the first step forward. The five point strategy in the industrial engineering of elimination, combination, re-sequencing, substitution and modification can be adopted to all the rules in existence and this will go a long way in bringing a systematic simplification of the entire set of rules. In fact, one problem we have in our country is the lack of the sunset clause in our laws, so that laws continue to be on the statute book long after their relevance has passed. These broad measures should go a long way in cleaning up our system.

(ii) The second element of the three point strategy should be transparency and empowerment of the public. It is a very happy development that the current UPA government which came to power in 2004 has passed the Right to Information Act. As Aruna Roy and other leaders like Anna Hazare, Dr. Jayaprakash Narain have pointed out, the very right to information can be a powerful tool for empowering citizens to ask questions and bring greater transparency in the system and sunshine is the best antidote for corruption. This combined with widespread application of information technology can result in significant reduction of corruption. For instance, three significant cases of IT application in India which have led to improvement are remarkable. First of course, is the two decade old computerization of the Railway passenger reservation system. The second is the use of IT in electronic voting machines. The third is the National Stock Exchange which emerged as the third biggest stock exchange in the world, after the New York Stock Exchange and NASDAQ,

based on the satellite communication system. So IT applications and e-governance will bring in greater transparency, easier access for citizens for their rights to information and in the way help in bringing down corruption.

(iii) The third important aspect is prompt punishment of the guilty. In fact, as Central Vigilance Commissioner I found that even after the CVC had given its recommendation after due enquiry, the disciplinary authorities were not taking action because, there was a delay in the system or there was a tendency to protect the corrupt. Once the matter was taken up directly with the authorities there was some improvement.

Sense of Values

After all, the level of corruption in any country depends on three factors. The first is the individual's sense of values. This is shaped by parents at home, the educational system, teachers, peers and religion. A value-based education system is available today only in institutions run by religiously inspired organizations like the Ramakrishna Mission, DAV schools or the Society of Jesus. The Government of India's adoption of the secular approach has resulted in the deemphasizing of the values in the education system and as a result perhaps contributed to the development of a cynical generation which believes in the philosophy of "get on, get honor and get honest".

The second factor that affects the level of corruption in any country is the social set of values. Over the years, in this country, corruption has become respectable. This is because of the all pervasive black money and the contribution to black money made by the respective professionals like those in the medical profession, legal profession and auditing and so on. Very few professionals

declare their full income and so tax evasion and creation of black money has become respectable in our country.

The third factor is the system. In fact, in the preceding paragraph, I tried to highlight what specific steps could be taken so far as the system is concerned to tackle political corruption and bureaucratic corruption. Tackling these two will go a long way in cleaning up the other sectors involved in corruption like criminals, business as well as NGOs.

In fact, I would like to end this on an optimistic note. The Supreme Court has forced the candidates to declare their criminal background, educational qualification and wealth details and this is the first step to bring in greater transparency in the political system and allow citizens empowered by knowing the correct facts about their representatives. The Right to Information Act is another good step taken and this combined with the initiative for e-governance should go a long way in improving transparency in our system and empowering the people. The increasing presence of the youth in the country and the rising levels of education should help in ultimately building a corruption free India in the years to come and in achieving this goal, as we have adopted a democratic system, we can practise the advice of the eternal *Itihasa Upanishad*.

Let us come together. Let us enjoy together. Let our strengths come together. Let us move from darkness to light. Let us avoid the twin danger of the danger of misunderstanding and hatred. That is how exists real progress.

Suhana varatu Sarat sarat diti

Saha Yajna karta

Tejas vina madhva

Ma vidu

Om Shantih

Economics and Health

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Thomas Malthus was an English economist who lived during the period 1766-1834. In his essay on population and its effects on society he put forward the theory that population growth will always outrun the food supply and that betterment of mankind is impossible without control of reproduction. Malthusian theory persuaded later economists and planners to promote family planning and contraception. Today in spite of population growth all developed countries are self sufficient and most developing countries are basically self-sufficient in food supply. If Malthus lived in present century he would have modified his theory that health care and social security costs rather than food supply as the priority for any developed nation.

Life Expectancy

Life expectancy at birth is the average number of years a person may live according to the mortality patterns prevalent in a country. It is one of the best indicators of a country's level of development and overall health status of the population. Malthus lived at a time when the average life expectancy at birth was about 40 years in England compared to 77.5 years today. Malthus was lucky enough to have lived 68 years in the pre-antibiotic era. Today, in the 21st century, thanks to the advancements in prevention, diagnosis and treatment life expectancy has improved both in developed and developing countries. Now with the advent of the new genetic knowledge average life expectancy is predicted to be around 90 years at least in the wealthier nations.

Twentieth century has seen some of the greatest advances in science and medicine. Antibiotics, insulin, vaccines, transplant medicine, renal medicine, scanning technology, cardiovascular medicine and cancer treatment are some of them. Increased life expectancy due to these advances in medicines has resulted in a large elderly population living with chronic diseases or disabilities. This has great social, political and economic consequences. In a welfare state the government has a duty to look after its citizens from cradle to grave. Apart from the cost of expensive medicines and treatment for chronic diseases, the cost of social services, social security and old age pension is also to be considered in the context of economics and health.

The idea of "Welfare State" means different things in different countries. In the ideal model the state accepts responsibility for the provision of comprehensive and universal welfare for its citizens. This includes: Social services, Social security, Health care and Old age pension.

In Europe, Germany was the first country to start a social security under its first chancellor Otto Bismarck in 1879. Inspired by the social changes in Germany Lloyd George, prime minister of Britain from 1916 to 1922 laid the foundation of British welfare state by starting health and unemployment insurance through national insurance act. But the architect of the post World War II welfare state of Britain is William Beveridge. Beveridge was an economist and civil servant and his comprehensive report to the then government was

blue print for the modern welfare state. National Health Service is considered to be the crown of British welfare state and founded by the then Labour health minister Aneurin Bevan in 1948.

British Welfare System

Following is a brief account of the British welfare state. The system is funded by taxation and national insurance. The basic rate of tax in UK is 22% and higher rate is 40%. In addition there is compulsory National insurance contribution for both employers and employees. Also there is a local government tax known as council tax and is dependent on the size of the house. About 50% of the national budget is spent on health, social security and local government services. British health care system is based on the family doctor principle. Every citizen in UK has to be registered under a family doctor otherwise called as General Medical Practitioner. Average list size of general practitioner is 2000 patients in England. General practitioner is the team leader for the primary care team. Other members of the team are health visitors, midwives, district nurses, community psychiatric nurses and practice nurses. General practitioners practice from small clinics or purpose built health centers. The average general practitioner sees about 30 patients a day. In addition there are house visits for elderly and house bound patients. Considerable time is spent on prevention and a General Practitioner's remuneration is based on list size and attainment of certain targets for chronic diseases like diabetes, heart disease, asthma and stroke. Hospitals provide specialist services for patients referred by the General Practitioners. There is no direct access to specialist services with the exception of accident and emergency services and Sexually Transmitted Diseases. Average waiting time to see a specialist is 2-3 months with the exception of suspected cancer, heart dis-

ease and certain conditions marked as urgent by General Practitioner. One negative aspect of the British system is the long waiting time to see a specialist and the longer waiting time for routine surgical procedures. In spite of these problems the British system is unique in that every citizen in UK, whether rich or poor, is provided with free medical care based on the clinical need rather than the ability to pay for the service. Though Britain is a capitalist society one can say that there is socialism in medical care. Private medical care is very rare in UK and is used mainly for less urgent surgical procedures with long waiting lists. In general the vast majority of the population relies on the National Health Service. Unlike countries with private insurance system with provision of care in private hospitals there is no element of commercialization of health care in NHS.

Another aspect of welfare state is social security system giving financial help for unemployed in the form of job seekers allowance, housing benefit, sickness benefit, child benefit, maternity benefit, disability benefit and attendance allowance. People on state benefits, children, elderly and the unemployed are eligible for free prescriptions for any illness. While the health care and social security are under the central government social services are under local government also called county council or district council. School, social service, fire service, ambulance, police, environmental health, housing for the poor and facilities for recreation are some of the functions of the local governments. Social services provide services for the elderly, children at risk, young disabled and the mentally ill. All developed countries have higher elderly population living with multiple disabilities. It is the duty of the social services to make sure that their needs are met. Many elderly people live alone with the help of carers from social services. Residential and nursing homes look after the very old who are unfit to live

alone. Though most of the care homes are now private, social services pay for the poor elderly who cannot afford to pay. Some aspects of the services for the elderly like home help, meals on wheels (delivery of mid-day meal) and care homes are means tested.

In UK state pension age for men is 65 years and 60 years for women. State pension is very basic and hence additional pensions in the form of occupational pension and private pensions are essential for a comfortable retirement. Self-invested personal pension scheme or SIPP is the latest private pension scheme introduced by the government to encourage the public to save for the retirement.

Wealth of a nation is dependant on the industrial output of the country. Doctors and nurses who work in the industrialized countries are familiar with the industrial diseases like pneumoconiosis, asbestosis, certain types of cancers, deafness, asthma, chronic bronchitis, dermatitis and stress related illness. In the 21st century there are preventive measures to deal with these problems and also compensation for those who develop these illnesses. But in the 19th and early 20th century the conditions in the factories and mines were dangerous and unhealthy. The Socialist movement was very active in Europe during that period. The policymakers of Western Europe were very keen to prevent a Marxist revolution as in Eastern Europe and hence the birth of the welfare state. In the present century all the developed nations have varying level of welfare systems. In general countries in the Western Europe have a more comprehensive level of welfare programmes than USA. In the USA health care is funded by private insurance which is usually done by employers. It is estimated that there are about 46 million people without any form of insurance. These are people with the lowest income and people with chronic diseases for whom private health insurance is unaffordable. There are state funded health care programmes for these people and also

charitable health care but the standard of care is not ideal and varies between the states.

Regulatory Bodies

One notable feature of any developed country is the regulatory bodies and systems to protect the public from wrong treatment by incompetent and unethical doctors. In UK the newly qualified doctor has to undergo a minimum of four years training before practicing as a GP and specialist training being much longer. Lifelong learning and annual appraisal is a requirement now and five yearly revalidation is going to be mandatory for all practising doctors in UK. National Institute of Clinical Excellence provides guidance and information on evidence based medicine and it is free for all doctors. Clinical governance is a new word in British medicine and it aims to achieve the highest standards in medical practice. Complaints procedure and medical indemnity insurance are other aspects which protect the public from wrong treatment or medical negligence.

Chronic diseases like stroke, cancer, kidney disease, heart disease and AIDs are a financial burden for the developed and developing countries. In addition there is a rising elderly population who needs medical and social care. At present there are no ideal solutions to the problems. There are many expensive drugs for chronic diseases with the possibility of prolonging life or even "CURE" in some conditions. In developed countries with private health care system the insurance premium goes up if a person develops a chronic disease or the person becomes uninsurable in some cases. In health care system funded by taxation, increased taxation remains the only option to provide a comprehensive level of cover. The state of affairs in developing countries is no comparison to the developed countries. Though there are free government funded health services in many poor countries the facilities are very basic and cannot provide high

standard of care as in developed countries. India has made great progress in health care over the last 20 years mainly in the private sector. Though the public spending in health care in India is among the lowest in the world India is in the top league for private spending, among the top 20 countries in the world. This has encouraged medical tourism from wealthier countries including UK and USA. Unfortunately high quality health care is unaffordable

for the local population and the average person is not covered by private insurance and hence ordinary people have to sell their assets to get treatment if they develop life threatening illness. The concept of welfare state remains a dream for most developing countries. Probably the world needs more Bill Gates models of charity to save the developing countries and the poorer section of the developed countries. ■

Indian Migration to the Gulf

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Since the mid 1970s a large number of Indian workers have migrated to the West Asian countries for employment. The migration which started with a few thousands per year during the mid 1970s assumed large proportions during 1980s and 1990s. The Report on High Level Committee has estimated the total Indian migrants in the Gulf countries viz. Bahrain, Kuwait, Libya, Oman, Qatar, Saudi Arabia, UAE and others as 30 lakh in 1999. According to the committee, Saudi Arabia had the largest number of Indian migrants (12 lakh) in the Gulf region. Migration to the West Asian countries is crucial because India is receiving a large amount of workers' remittances every year.

Categories of Migrants

Different categories of people migrate for different purposes. Migrants are classified into the categories such as foreigners admitted for special purposes; settlers; migrant workers, economic migrants and asylum migrants. The foreigners admitted for spe-

cial purposes are foreign students, foreign trainees and foreign retirees. Settlers are persons who are granted the right to stay indefinitely in the territory of a country other than their own and to enjoy the same social and economic rights as those of the citizens of that country. Migrant workers are persons admitted by a country other than their own for the explicit purpose of carrying out an economic activity. The category of migrant workers includes seasonal migrant workers, project-tide migrant workers, contract migrant workers, temporary migrant workers, established migrant workers and highly skilled migrant workers. A unique characteristic of migration to Gulf is contract type.

Contract migration occurs when a worker is officially granted permission to enter another country and take up employment in a given job and where a contract is entered into on his behalf or between him and the employer or enterprise for which he is to work. Contract itself takes several forms like individual contract and collective contract. In contract migration, return is an essential

part of the migration process. Here the workers are hired for contractual jobs for a definite time period and expected to return after the expiry of the period. Usually during the period of stay abroad they leave their families behind in their home country. In order to support their family, the emigrants send remittances on a regular basis. The economic impact of contract migration will be substantial on the domestic economics of the labour exporting countries compared to the settlement type of migration.

Labour Market situation in the Gulf countries

The discovery of vast resources of oil and their exploitation since the late 1960s is the basic and driving force that has been responsible for the phenomenal changes that have taken place in most of these countries in the last four decades. Saudi Arabia, for instance, is credited with having 25% of the proven oil reserves of the world. Most of the other Gulf states have enough oil resources to keep their relatively small economies on the path to prosperity. The rise in oil prices in 1973 led to a very rapid increase in the revenues accruing to the oil producing countries of the Gulf. This accelerated a process of industrialization and social change in these countries characterised by massive investment in social and economic infrastructure necessitating the services of large number of foreign workers.

The entire region is sparsely populated, Saudi Arabia and Iraq being the only Gulf countries with relatively large populations of almost 22 and 23 million, respectively. As for the others, the corresponding figures range from barely half a million to about two and a half. Consequently, these countries experienced an acute shortage of workers. This shortage is all the more endemic in the case of professionals like highly qualified doctors to man their well-equipped hospitals, as well

as engineers, architects, chartered accountants, bankers etc. There is also a tremendous dearth in these countries of highly skilled and even semi-skilled and unskilled workers. Such personnel are essential for the construction of the new housing, commercial and industrial structures and for the implementation of numerous other infrastructure schemes. To meet these demographic and skills shortages, the region has had to import hundreds of thousands of personnel from many other countries.

As the Arab nationals prefer employment in well-paid government positions, they have ensured that they would have the assistance of qualified foreign technicians and experts to perform the risks that they themselves ought to be doing. There is reluctance on the part of most citizens in the Gulf to undertake any semi-skilled, unskilled or menial jobs and a huge foreign workforce has had to be recruited to develop infrastructure and other development projects. There are no ceiling for the recruitment of domestic help such as housemaids, gardeners, cooks, bearers and such other personnel. In fact, there has been an unfortunate mismatch between the large scale unemployment of such workers in their home countries and the enormous demand for them in the Gulf. The result has been a tendency on the part of employers in some of the countries of the region to treat their domestic help with scant regard for their welfare.

The highly paid professionals are also usually fortunate enough to be permitted to take their families with them to the Gulf as their monthly emoluments are more than the variously prescribed minimum. On the other hand, the low paid categories of workers are not allowed to bring their families with them. The low paid workers particularly those who are semi-skilled or unskilled, are accommodated in crowded labour camps

small rooms with four to eight bunkers. The facilities provided to them such as beds and kitchens are inadequate and unsatisfactory. Generally, the living conditions and amenities provided by the large corporations are better than the facilities extended by small companies and individual employers. Foreign nationals are not permitted to own any business or immovable property in the Gulf countries. They are required to become a local citizen or entity a majority even as a sleeping partner in their enterprises. With this type of an arrangement they were able to promote investment, production and generation of new wealth. Citizenship is almost universally not granted by the Gulf countries to foreign nationals. Hereditary monarchial regimes have traditionally administered all the Gulf countries. Even though some of them may have features such as an elected legislature or an Advisory Council, the executive and legislative powers invariably vest in the hereditary monarch in each of them.

Ends in Indian Emigration to the Gulf

We do not have accurate data relating to the annual outflows or return flows of Indian labour and stocks of Indian emigrants in different foreign countries. The basic source of statistics about labour outflows is the data provided by the Protector General of Emigrants (PGE) in the Ministry of Labour of the Government of India. In the absence of well-regulated rules and procedures for recruitment, we find the statistics on emigration clearance and employment abroad and the annual outflows for the period till 1983, quite unreliable. After the implementation of the Emigration Act 1983, the collection of statistics on migrant flows became more systematic. But the exclusion of a number of categories of emigrants due to exemption given under Emigration Check Not Required (ECNR) has resulted in the partial coverage of the labour outflows. The workers who

require emigration clearance are mostly farm workers, but include unskilled, low skilled and semi-skilled categories of workers also. The categories of persons exempted from emigration clearance are educated, trained, gazetted government servants, income tax payers, professional degree holders, persons who had stayed abroad for more than three years and professionals such as supervisors and skilled workers. Owing to these reasons, the data on the labour outflows give only a partial account of the emigrants from India.

Based on data of the annual outflows of labour from India between 1984 and 1999, we divide the period into three phases. The first phase covers the period between 1984 and 1991, which witnessed an annual volume of emigration ranging between 1.14 lakh and 2.06 lakh. The second phase is the first half of the 1990s (1992-1997) when the annual outflow of labour was more than 4 lakh. The third phase started since 1998 when a fall began in the annual volume of emigration (Table 1).

Table 1: Number of Workers Granted Emigration Clearance, India

Year	Number of workers (in lakh)	Growth (%)
1984	2.06	-
1985	1.63	-20.87
1986	1.14	-30.06
1987	1.25	9.65
1988	1.70	36.00
1989	1.26	-25.88
1990	1.44	14.29
1991	2.02	40.28
1992	4.17	106.44
1993	4.38	5.04
1994	4.25	-3.06
1995	4.15	-2.41
1996	4.14	-0.24
1997	4.16	0.48

1998	3.55	-14.66
1999	1.99	-43.94
2000	2.43	22.11
2001	2.78	14.40
2002	3.68	32.37

Source: Various Annual Reports of Ministry of Labour, Govt. of India

The major reasons for the sharp decline in Indian migration since 1998 to the Gulf may be attributed to the drastic changes in the immigration policies of the host countries, aimed at reducing the inflows of foreign workers, the recession in the Gulf economies and the saturation of labour markets of the unskilled and semi-skilled categories. These countries began to follow a policy of replacing many categories of foreign workers with their native workforce. They introduced, what is known as a demographic balance policy, a policy of not allowing foreign workers of any single country to dominate the migrant workforce in a given destination country.

Destination

The important destinations of Indian migrants to West Asia during the 1980s were Saudi Arabia, United Arab Emirates (U.A.E.), Oman and Bahrain. Table 2 gives the number of workers granted emigration clearance by destination. By 1990s, Saudi Arabia became the destination of majority of Indian emigrants. The destination of nearly one-fourth of Indian emigrants was Oman dur-

ing the year 1990. During 1990s a substantial change was visible in the directions of the flow of emigrants to West Asia. During the late 1990s the annual flow of unskilled and semi-skilled categories registered a decline in Saudi Arabia, U.A.E., Oman and Bahrain. On the other hand, there has been an increase in annual flow of unskilled and semi-skilled workers to Kuwait. But the available data suggest that there has been a spurt in annual flow of the unskilled and semi-skilled categories in the year 2002 compared to the previous years.

The major categories of workers who migrated include unskilled and skilled construction workers and other skilled workers. The skilled construction workers comprised categories such as carpenter, electrician, fitter, foreman, mason, painter, plumber, welder, surveyor, and supervisor. The other skilled workers include cook, driver, mechanic, machine operator, and tailor. The rest included engineers and technicians, paramedical staff and office staff.

A state wise break up of the number of workers granted emigration clearance shows that Kerala, Tamil Nadu, Andhra Pradesh, Maharashtra, Rajasthan and Punjab are the States from where large number of persons has migrated to the Gulf. Table 3 gives the statewide distribution of number of workers granted emigration clearance between 1995 and 2002.

Table 2: Number of Workers Granted Emigration Clearance by Destination

Country	1990	1995	1996	1997	1998	1999	2000	2001	2002
Bahrain	6,782	11,235	16,647	17,944	16,997	14,905	15,909	16,382	20,807
Kuwait	1,077	14,439	14,580	13,170	22,462	19,149	31,082	39,751	4,859
Oman	34,267	22,338	30,113	29,994	20,774	16,101	25,155	30,985	41,209
Saudi Arabia	79,473	2,56,782	2,14,068	2,14,420	1,05,239	27,160	59,722	78,048	99,453
U.A.E.	11,962	79,674	1,12,644	1,10,945	1,34,740	79,269	55,099	53,673	95,034
Others	10,004	30,866	26,162	29,951	54,952	42,968	56,215	5,98,25	1,06,301
Total	1,43,565	4,15,334	4,14,214	4,16,424	3,55,164	1,99,552	2,43,182	2,78,664	3,67,663

Source: Various Annual Reports of Ministry of Labour, Govt. of India

Table 3: Number of Workers Granted Emigration Clearances by Major States

	1995	1996	1997	1998	1999	2000	2001	2002
	30,284	29,995	38,278	30,599	18,983	29,999	37,331	38,417
	33,496	33,761	40,396	11,535	5,287	10,927	10,095	14,061
	1,65,629	1,67,325	1,56,102	91,720	60,445	69,630	61,548	81,950
	26,312	25,214	25,146	24,657	9,871	13,346	22,713	25,477
	11,852	11,751	12,414	26,876	15,167	10,025	12,422	19,638
	28,374	18,221	28,242	19,824	9,809	10,170	14,993	23,254
	65,737	64,991	63,672	69,793	47,402	63,878	61,649	79,165
	53,650	62,956	52,174	80,160	32,588	35,207	57,913	85,701
	4,15,334	4,14,214	4,16,424	3,55,164	1,99,552	2,43,182	2,78,664	3,67,663

Various Annual Reports of Ministry of Labour, Govt. of India

Indians in the Gulf

According to an estimate of the High Level Committee on Indian Diaspora, the number of Indian migrants increased from 10.05 lakh in 1979 to 15.05 lakh in 1999

and to 30 lakh in 1999. According to this committee Saudi Arabia, U.A.E., Oman, Kuwait and Bahrain are the major destinations of Indian migrants in Gulf region (Table 4).

Table 4: Estimates of Indian Migrants in the Gulf Region 1979-1999

	1979	1983	1991	1999
	26,000	30,000	1,00,000	1,50,000
	20,000	50,000	N.A.	N.A.
	65,000	1,15,000	88,000	2,00,000
	10,000	40,000	12,000	20,000
	60,000	1,00,000	2,20,000	4,50,000
	30,000	40,000	75,000	1,00,000
	1,00,000	2,70,000	6,00,000	12,00,000
	1,52,000	2,50,000	4,00,000	7,50,000
	68,000	21,000	10,000	1,30,000
	5,31,000	9,16,000	15,05,000	30,00,000

OL, 2002, Report of the High Level Committee on the Indian Diaspora

During the last three decades, there had been much change in the destination of Indian migrants in the Gulf region. During the 1970s, U.A.E. was the major destination for Indian migration. But during the subsequent decades Saudi Arabia became the major destination. On the other hand,

there had been a decline in the Indian migration to Iraq and Libya during 1990s. According to the Committee 40 percent of the stock of Indian emigrants in the Gulf region was in Saudi Arabia, while the share of U.A.E. and Oman were 25 and 15 percent respectively (Table 5).

Table 5: Estimates of Indian Migrants in the Gulf Region 1979-1999 (Percentage)

	1979	1983	1991	1999
	4.89	3.27	6.64	5.00
	3.76	5.46	N.A.	N.A.
	12.24	12.55	5.85	6.66
	1.90	4.37	0.79	0.66
	11.30	10.92	14.62	15.00
Qatar	5.65	4.37	4.92	3.33
Saudi Arabia	18.83	29.47	39.27	40.00
U.A.E.	28.62	27.29	26.52	25.00
Others	12.80	2.29	6.66	4.33
Total	100.00	100.00	100.00	100.00

According to the Committee more than half of the total stock of Indian migrants in the Gulf region belong to Kerala. The remaining persons have mostly been from Andhra Pradesh, Goa, Karnataka and Tamil Nadu.

The Committee estimates that non Resi-

dent Indian Citizens (NRIs) account for 7 percent of the total population in Saudi Arabia. On the other hand, NRIs account for 32 percent of the total population of U.A.E., 13 percent of Kuwait, 15 percent of Oman, 20 percent of Bahrain and 24 percent of Qatar (Table (6)).

Table 6: Percentage of NRIs in the Total Population of Main Arab Countries in Year 2000

Country	Population	No. of NRIs	Percentage of Population
S. Arabia	2,15,00,000	15,00,000	7
U.A.E.	28,00,000	9,00,000	32
Kuwait	22,00,000	2,87,600	13
Oman	22,00,000	3,40,000	15
Bahrain	6,43,000	1,30,000	20
Qatar	5,25,000	1,25,000	24

Source: GOI, 2002, Report of the High Level Committee on the Indian Diaspora

Current problems of NRIs in the Gulf countries

Of the total Indian migrants in the Gulf, majority of them are semi-skilled and unskilled workers getting lower wages. Most of them are denied the non-wage benefits entitled as per law. The High Level Committee estimates that of the total migrants 70 percent are semi-skilled and unskilled workers. And the white-collar workers was about 20 percent and professionals 10 percent.

The professional Indians and some of the white-collar workers are the only ones who qualify to have their families with them due to the high basic income norms set by the Gulf governments. To enjoy such a privilege in the U.A.E, for instance, the monthly earnings of an NRI must be not less than 4,000 Dirhams (about Rs. 48,000) or Dirhams 3,000 plus accommodation. In Kuwait, the qualifying minimum is even higher namely Kuwait Dinars 400 or Rs. 56,000 per month. Because of high ceiling on earnings, more than 80 percent of the Indian emigrants are not

allowed to bring their family members with them.

The living and working conditions of the unskilled and semi-skilled Indian workers in the Gulf leave much to be desired. A majority of these NRIs are young males. Over 60% of them have had little formal education. On arrival in their country of destination in the Gulf, they are usually fed and housed in barracklike tenements and engaged as labour on construction projects.

There are many unfortunate cases of recruiting agents duping illiterate job seekers, often in collusion with the prospective employers. As per prevalent practice, the employee is required to hand over his travel document to the employer on his arrival. The document is kept in the custody of the employer. Enabling him to exercise undue hold over the employee and to ignore or alter the terms of the employment.

The other current problems faced by the migrants in the Gulf countries are the following. (1) Non-compliance labour contract by

the employer after arrival. Denial of job, wages, non wage benefits as per the original labour contract. In many cases, forcing the skilled workers to do unskilled jobs with low wages. (2) Creating much hardships to the new migrants by the employers by not receiving them on arrival at airport after sponsoring visas. (3) Salaries are often not paid when due; sometimes not paid at all for several months towards the end of the contractual period, resulting in non receipt of salaries for the work done. (4) Practice of deducting the work permit fees from their meagre salaries.

(5) Forcing them to work long hours than the recognized 8 hours per day. (6) Non-payment of legitimate overtime dues. (7) Poor and unsatisfactory transportation arrangements for labourers from their camps to their worksites.

(8) Lack of inadequate medical facilities to the workers. (9) Non-payment of Airfare for return journey to India after two years as per labour rules. (10) Inaccessible labour courts for ordinary migrants who want to settle labour disputes. The mandate of the labour courts appears to be restrictive and it does not cover domestic help. (11) Ill-treatment and molestation of Indian women who were recruited as cooks or housemaids by the employers or agents sending them under false pretenses. Out of a total of 294,000 NRIs in Kuwait, about 113,000 of them are domestic servants and of them, about 49,000 are housemaids. (12). Severe stress leading to serious psychological problems and suicides. Concern for their families left behind in India, difficult living and working conditions, insecurity of jobs has often led to depression and melancholia, resulting in suicide in extreme cases. Shepherds and agricultural workers have to work in remote areas with minimal or no contact with the outside world. (13) Workers who

want to return to India on completion of their contracts, or due to an unforeseen emergency like sickness or death in the family often find that exit formalities are inordinately delayed (14) The usual practice in Gulf countries is to deposit the passport of the migrants with the employer. And employer refuses to give the passport to the worker when he wants it, thus creating much hardships. In some cases, when he changes the employer without his consent the worker becomes an illegal migrant.

More than 30 lakh NRIs are there in the Gulf countries. Of them nearly half are from the Kerala state. Though, there has been decline in the trend in migration during the late nineties the situation has changed since 2001. Of the total Indians in the Gulf, 70 percentage are semi-skilled and unskilled workers, 20 percent white-collar workers and 10 percent professionals. As majority of the Indian emigrants are semi-skilled and unskilled they receive low wages and face a host of problems. The lack of an effective labour dispute redressal system in the Gulf creates serious hardships to the Indian migrants. The majority of the Indian migrant workers also face a number of severe problems connected with their work and stay in the Gulf countries. ■

More Millionaires

The number of people globally with over \$ 1 million assets rose by 6.5% in 2005 to touch 8.7 million, according to Merrill Lynch. South Korea witnessed the highest growth of 21.3% in the number of high net worth individuals. India was second with a 19.3% growth. The number of millionaires stood at 2.4 m. in Asia Pacific, 2.8 m. in Europe and 2.9 m. in North America.

Industry

The introduction of the New Industrial Policy of deregulation, delicensing and disinvestment has opened a new environment in the country. A significant number of industries in the public sector are now thriving alongside many industries in the private sector. Often Foreign Direct Investors are setting new trends on a competitive playing field. The overall growth in the General Index during 2002-03 has been 5.8%.

Steel

India is the 9th largest steel producing country in the world. The annual growth rate of crude steel production in 2002-03 was 8% and in 2003-04, 6%. The apparent consumption of the finished steel was 30.265 m tonnes in 2003-04. India also annually imports 1.5m tonnes of steel. During 2003-04 India exported 5.3 million tonnes of steel in the form of plates, bars and rods, rolled coils, colour coated sheets, pig iron, sponge iron, GP/GC sheets, etc.

India has once again emerged as the largest producer of sponge iron in the world for the calendar year 2004-05 with a record production of 8.085 million tonnes, showing a significant growth of 17.5%.

Textiles

The textile's strong presence in the Indian economy adds up to 14% to the industrial production and about 4% to the GDP. It together with allied agricultural sector will provide employment to over 91 million people by the end of 2007.

The handloom sector constitutes 14% of the total cloths produced. The production of

the handloom fabrics has registered a 10 fold increase from a mere 500 m sq. metres in 1950s to 5524 million sq. metres in 2002-03. The contribution of the powerloom sector is to the extent of 62%. Cotton accounts for more than 75% of the total fibre consumption in the spinning mills and more than 56% of the total fibre consumption in the textile sector. India tops in production of raw jute and jute goods and second in export of jute goods. About 4 million farmers are engaged in the cultivation of jute and mesta and about 2.61 lakh workers employed in the jute industry.

India is the second largest producer of raw silk. The Industry employs 54 lakh persons. The raw silk production in 2004-05 was 15,785 MT. There are five varieties of silk and India is the only country in the world which produces all the 5 commercial varieties, namely, Mulberry, Tropical Tasar, Oak Tasar, Eri and Muga.

Indian handicrafts have a wide range of things made up of bamboo, cotton, silk, jute, cane, metals, glass-work, and much more. Exports of handicrafts including hand-knotted carpets were of the order of Rs. 15255.90 crore during 2004-05 representing 19.51% over the previous year.

Cement

Cement is one of the most advanced industries in the country. As on 30 April, 2005, there were 128 large cement plants with an installed capacity of 144.98 million tonnes per annum. There are more than 300 small cement plants with an estimated capacity of 11.10 million tonnes per annum.

The production during 2004-05 was 131.56 million tonnes with a growth rate of 6.52%. In 2004-05, India exported 10.06 million tonnes (prov.)

Leather

The small scale, cottage and artisan sector account for over 75% of the total leather production. India, in this sector, has big advantage in terms of cheap raw material and skilled manpower. Besides most of the people employed in this industry are predominantly from minority communities and disadvantaged sections of the society. About 30% of the work force employed here constitute women. In 2004-05, India exported leather worth Rs. 9,749 crore.

Fertilisers

India is the third largest producer of nitrogenous fertilisers in the world. There are 57 fertiliser units manufacturing a wide range of nitrogenous and complex fertilisers, including 29 units producing urea and nine units producing ammonium sulphate as by-product.

The production capacity of nitrogen has increased from a modest 85,000 tonnes in 1951-52 to 120.31 lakh tonnes in terms of nitrogen. The production target for 2005-06 has been fixed at 118.07 lakh tonnes of nitrogen and 47.02 lakh tonnes of phosphate.

Paper and Newsprint

In 2003, there was an installed capacity for nearly 6.2 million tonnes of paper and paperboard and about 1.24 m tonnes of newsprint. The Indian industry is ranked 15th among the world top ranking paper industries. The industry is fragmented with installed capacity ranging from two tonnes to 600 tonnes. Its turnover is about Rs. 16,000 crore, employing nearly three lakh people directly and 10 lakh people indi-

rectly. The per capita consumption of paper in India is still 5.5kg. The world average per capita consumption is 50kg.

Small and Medium Enterprises

As per the Third All India Census of SSIs (Registered and Unregistered units) held for the year 2001-02, there were 105.21 lakh SSI units in the country, out of which 13.75 lakh were registered working units and 91.46 lakh unregistered units. Their contribution to production was Rs. 2,82,270 crore and to employment at 249.09 lakh persons. It is estimated that during 2004-05, the number of SSI units has increased to 118.59 lakh from 113.95 lakh in the previous year registering a growth of 4.7 per cent. The value of production at current prices by the SSI units also increased by 13.95 per cent to 4,07,630 crore from Rs. 3,57,733 crore during 2003-04.

FMCG Industry

THE Rs. 41,000-crore Indian Fast Moving Consumer Goods (FMCG) industry appears to be fatigued, after robust growth in the early 1990s. Growth rates in the larger categories such as soaps, detergents and tooth-pastes, which already reach out to the bulk of Indian consumers, have been declining since 2000. The challenges of the slowdown have brought some tangible benefits to the consumer as also to the industry. They are: consumers now drive a better bargain with lower prices and freebies; cost structure and pricing is crucial; and competitive marketing strategies offer better value to its consumers.

The slow down, accompanied by significant changes in the business environment over past few years, has led to significant upheavals within the FMCG industry. It has not only weakened the dominance of the large MNCs operating in the Indian FMCG and challenged their pricing power but also widened the basket of choices for consumers.

Planning

Planning is the key to development for a developing country. For a mixed economy like India where both Public sector and Private sector exist alongside in the nation building process, the aim of the planning process is to offer quality of life to its citizens. In a welfare state equal opportunity in terms of education and employment, equitable distribution of wealth, health and social security are crucial.

To that end, in India we have the Planning Commission (constituted in March 1950), National Planning Council (established in 1965), and National Development Council.

The Five Year Plans are drawn by the Planning Commission. Besides there have been three Annual Plans - (a) 1966-67 to 1968-69 (Plan holiday during War with China and Pakistan); (b) 1978-79 to 1979-80 (during Janata Government); and 1990-91 to 1991-92 (to bring about maximum employ-

ment and social transformation).

Highlights of 10th Plan

- Doubling of Per capita Income in 10 years
- Achieving growth rate of 8% of GDP per annum
- Reduction of poverty from 26 to 21% by 2007
- Decadal population growth to be reduced from 21.3% (1991-2001) to 16.2% in 2001-2011
- Growth in gainful employment to keep pace with the addition to labour force
- All children to be in school and 5 years schooling by 2007
- Reduce gender gaps in literacy and wage rates by 50%
- Literacy Rate to be increased from 65% to 75% by 2007
- Providing potable drinking water in all villages
- Infant Mortality Rate to be reduced from 72 (1999-00) to 45 in 2007
- Maternal mortality ratio to be reduced from 4 (1999-00) to 2 in 2007
- Increase in forest/tree cover from 19% (1999-00) to 25% in 2007
- Cleaning of major polluted river stretches.

5-year Plan	Period	Outlays			Total
		Centre	States	UTs	
1. First Plan	1951-56	1241.00	828.00	-	2069.00
2. Second Plan	1956-61	2559.12	2240.88	-	4800.00
3. Third Plan	1961-66	3600.00	3725.00	175.00	7500.00
4. Fourth Plan	1969-74	8870.00	6606.47	425.00	15902.16
5. Fifth Plan	1974-79	19954.10	18265.08	634.06	38853.24
6. Sixth Plan	1980-85	47250.00	48600.00	1650.00	97500.00
7. Seventh Plan	1985-90	95534.00	80698.00	3768.00	180000.00
8. Eighth Plan	1992-97	247865.00	179985.00	6250.00	434100.00
9. Ninth Plan	1997-2002	489361.00	369839.00	*	859200.00
10. Tenth Plan	2002-07				

Note : First Plan total outlay is the 1952 Original Plan Provision; The Fifth Plan total outlay excludes Rs. 450.00 crores for Hill and Tribal Areas; Outlays are at prices at base year of Plan; * The State Outlay for Ninth Plan includes the figures for UTs.

Tenth Five-year Plan (2002-07) was approved by National Development Council on 21 Dec 2002.

The largest share (about 96 per cent) in the total geological resources is accounted by Cuttak district in Orissa. Deposits of economic significance occur in Orissa, Karnataka, Maharashtra, Jharkhand, Madhya Pradesh, Chhattisgarh, Tamil Nadu and Manipur. However, refractory grade reserves of chromite are very meagre.

Copper: The total in situ reserves of copper ore in the country are 712.5 million tonnes equivalent to 9.4 million tonnes of metal content. The all-India conditional resources of copper are 722 million tonnes, (3.16 million tonnes of copper metal) and prospective resources are 0.6 million tonnes of copper ore. Major and important copper ore deposits are located in Singhbhum district (Jharkhand), Balaghat district (Madhya Pradesh) and Jhunjhunu and Alwar districts (Rajasthan). In addition, there are small copper ore deposits in Gujarat, Karnataka, Andhra Pradesh, Uttar Pradesh, Sikkim, Meghalaya, Maharashtra and West Bengal.

Gold: There are 3 important gold fields in the country, namely, Kolar Gold Field, Kolar district, Hutti Gold Field in Raichur district (both in Karnataka) and Ramgiri Gold Field in Anantpur district (Andhra Pradesh). Total in situ reserves of gold ore are estimated at 222.4 million tonnes, with 116.50 tonnes of metal.

Iron Ore: The total in situ reserves of iron ore in the country are about 12,317 million tonnes of haematite and 539.5 million tonnes of magnetite. The resources of very high grade ore are limited and are restricted mainly in Bailadila sector of Chhattisgarh and to a lesser extent in Bellary-Hospet area of Karnataka and Barajamda sector in Jharkhand and Orissa. Haematite resources are located in Orissa, Jharkhand, Chhattisgarh, Karnataka, Goa, Maharashtra, Andhra Pradesh and Rajasthan. Magnetite resources are located in Karnataka, Andhra Pradesh, Goa, Kerala, Jharkhand, Rajasthan and Tamil Nadu.

Lead-Zinc: Lead-Zinc resources are located in Rajasthan, West Bengal, Andhra Pradesh, Gujarat, Madhya Pradesh, Uttar Pradesh,

Orissa, Maharashtra, Meghalaya, Tamil Nadu and Sikkim. Total in situ reserves (all grades) of lead and zinc ores are 231.22 million tonnes comprising metal content of 5.1 million tonnes of lead and 17.01 million tonnes of zinc metal.

Manganese: The total in situ reserves of manganese ore are 406 million tonnes out of which 104 million tonnes are proved, 135 million tonnes are probable and 167 million tonnes are in possible categories. Main reserves fall in Karnataka, followed by Orissa, Madhya Pradesh, Maharashtra and Goa. Minor occurrences of manganese are in Andhra Pradesh, Jharkhand, Gujarat, Rajasthan and West Bengal.

Nickel: The total estimated conditional resources of nickel ore are 188.7 million tonnes located in Orissa (174.48 million tonnes) and Jharkhand (9 million tonnes).

Tungsten: The total in situ reserves of tungsten ore have been estimated at 4 million tonnes or 1,32,478 tonnes of content. The main reserves are at Deo Rajasthan. It also occurs in Maharashtra, West Bengal and Andhra Pradesh.

Barytes: The in situ reserves of baryte are 85.29 million tonnes. The Mangampet deposit occurring in Cuddapah district (Andhra Pradesh) is the single largest deposit in the world. Occurrences of barytes are located in Rajasthan, West Bengal, Chhattisgarh, Madhya Pradesh, Tamil Nadu, Maharashtra, Uttar Pradesh, Jharkhand, Himachal Pradesh and Karnataka.

Diamond: Diamond deposits occur in different types of geological settings such as kimberlite pipes, conglomerate beds and alluvial gravels. The main diamond bearing areas in India are Panna belt in Madhya Pradesh, Munimadi-Banganapalle conglomerate in Karnataka, Wajrakarur kimberlite pipe in Andhra Pradesh and the gravels of Krishna river basin in Andhra Pradesh. Reserves have been estimated only in Patana belt and Krishna Gravel in Andhra Pradesh. The total in situ reserves are about 26,43,824 carats. There are conditional resources of 19,36,512 carat. The new kimberlite

te fields are discovered recently in Raichur-Jalburga districts of Karnataka.

Dolomite: Dolomite occurrences are widespread in almost all parts of the country. The total in situ reserves of all grades of dolomite are 7,348 million tonnes. The major share of about 90% reserves is distributed in the states of Madhya Pradesh, Chhattisgarh, Orissa, Gujarat, Karnataka, West Bengal, Uttar Pradesh and Maharashtra. The reserves of BF and SMS grades are large, but those of refractory grade at 425 million tonnes constitute only 5.8% of the all India reserve.

Fire Clay: Fireclay occurs as a bedded deposit, mostly associated with coal measures of Gondwana and Tertiary periods. Important deposits are associated with Jharia and Raniganj coalfields in Jharkhand and West Bengal, Korba coalfield in Chhattisgarh and Neyveli Lignite field in Tamil Nadu. Notable occurrences of fireclay not associated with coal measures are known in Gujarat, Jabalpur region of Madhya Pradesh and Belpahar-Sundergarh areas of Orissa. The in situ reserves of fireclay are about 706 million tonnes.

Fluorspar: Total in situ reserves of fluorspar in India are 14.15 million tonnes. Commercial deposits of fluorspar are located in Gujarat, Rajasthan, Madhya Pradesh and Maharashtra.

Gypsum: The in situ reserves of gypsum are estimated at 383 million tonnes. Out of this 1.8 millions are of surgical/ plaster grade, 91.7 million tonnes of fertiliser / pottery grade, 76.37 million tonnes of cement/ paint grade, 13 million tonnes of soil reclamation grade and the rest is unclassified. The production of gypsum is confined to Rajasthan, Tamil Nadu, Jammu and Kashmir, and Gujarat. Rajasthan is the main producer of gypsum followed by Jammu and Kashmir.

Graphite: The in situ reserves of graphite are 15.9 million tonnes. Orissa is the major producer of graphite. Almost the entire reserves of Tamil Nadu under proved category are in

Ramanathapuram district. Deposits of commercial importance are located in Andhra Pradesh, Jharkhand, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan and Tamil Nadu.

Ilmenite: The in situ reserves of ilmenite are 374.62 million tonnes. Ilmenite occurs mainly in beach sand deposits right from Ratnagiri (Maharashtra) to coast in Kerala, Tamil Nadu and Orissa. The mineral is also found in Andhra Pradesh, Bihar, and West Bengal.

Kaolin: The all India in situ reserves of kaolin, including white clay of all categories are about 2,353 million tonnes. Principal producing states are Kerala, West Bengal, Bihar, Rajasthan and Gujarat. Ball clay is mainly produced in West Godavari district of Andhra Pradesh and Bikaner district of Rajasthan.

Limestone: The total in situ reserves of limestone of all categories and grades are placed at 1,69,941 million tonnes. The total conditional reserves have been estimated at 3,713 million tonnes. The major share of its production comes from Madhya Pradesh, Chhattisgarh, Andhra Pradesh, Gujarat, Rajasthan, Karnataka, Tamil Nadu, Maharashtra, Himachal Pradesh, Orissa, Bihar, Uttaranchal and Uttar Pradesh. The remaining part comes from Assam, Haryana, Jammu and Kashmir, Kerala and Meghalaya.

Mica: India is the world's leading producer of sheet mica and accounts for about 60 per cent of global mica trade. Important mica bearing pegmatite occurs in Andhra Pradesh, Jharkhand, Bihar, Rajasthan. The total in situ reserves of mica in the country are placed at 59,065 tonnes. The in situ reserves of mica in Andhra Pradesh are 42,626 thousand tonnes, Bihar 12,938 tonnes, Jharkhand 1,494 tonnes and in Rajasthan 2,006 tonnes.

Magnesite: The total in situ reserves of magnesite are about 415 million tonnes of which 75.8 million tonnes are in the proved category. Major deposits of magnesite are found in Uttaranchal, Tamil Nadu and Rajasthan while minor occurrences are in Jammu and Kashmir, Karnataka, Himachal Pradesh and Kerala.

Kyanite and Sillimanite: The total in situ reserves of kyanite and sillimanite in the country are 8.1 million tonnes and 58.8 million tonnes respectively. Besides, conditional resources of 95.3 million tonnes of kyanite are also estimated. For sillimanite, conditional resources are estimated to be 5.9 million tonnes. Kyanite deposits are located in Maharashtra, Karnataka, Jharkhand, Rajasthan, and Andhra Pradesh. Sillimanite resources are in Tamil Nadu, Orissa, Kerala, Andhra Pradesh and West Bengal with minor occurrences in Assam, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya and Rajasthan.

Phosphate Minerals: Deposits of phosphorites are located in Madhya Pradesh, Rajasthan, Uttaranchal, UP. and Gujarat. Besides, apatite deposits of commercial importance are reported from Jharkhand, West Bengal, Andhra Pradesh, Tamil Nadu and

Rajasthan. In situ reserves of phosphorites are estimated at 193.23 million tonnes of all grades and of apatite at 14.83 million tonnes.

Other Minerals: Other minerals occurring in significant quantities in India are bentonite (Rajasthan, Gujarat, Jharkhand and J&K), corundum (Karnataka, Andhra Pradesh, Rajasthan and Chhattisgarh), calcite (Andhra Pradesh, Rajasthan, Madhya Pradesh, Tamil Nadu, Haryana, Karnataka, Uttar Pradesh and Gujarat), fuller's earth (Rajasthan, Jharkhand, Bihar, Andhra Pradesh, Tamil Nadu, Maharashtra, West Bengal and Karnataka), garnet (Tamil Nadu, Orissa, Andhra Pradesh, Rajasthan and Kerala), pyrites (Jharkhand, Rajasthan, Karnataka, Himachal Pradesh and Andhra Pradesh), steatite (Rajasthan, Uttar Pradesh, Kerala, Maharashtra and Madhya Pradesh), wollastonite (Rajasthan and Gujarat), zircon (beach sand of Kerala, Tamil Nadu, Andhra Pradesh and Orissa).

Energy Scenario

The social and economic development of a country owes a lot to the development of energy resources of that country. Development of conventional forms of energy for meeting the growing energy needs of society is the responsibility of the government. The Ministry of Non-conventional Energy Sources is now actively engaged in the development and promotion of non-conventional/ alternative/ new and renewable sources of energy such as solar, wind and bio-energy etc.

Power development in India started at the end of the 19th century with the commissioning of electricity supply in Darjeeling during 1897. It was soon followed by the commissioning of a power station at Sivasamudram in Karnataka during 1902.

The installed power generation capacity in the country has increased from 1,400 MW in 1947 to 1,18,419.09 MW as on 31 March 2005 comprising 80,902.45 MW thermal, 30,935.63 MW hydro, 3,811.01 MW wind and 2,770 MW nuclear. A capacity addition programme of 6,344.52 MW has been fixed for the year 2005-06. Power generation during 2004-05 was 587.366 BUs comprising 486.031 BUs thermal, 84.497 BUs hydro. The target of power generation for 2005-06 has been fixed at 621.500 BUs.

Coal is the main source of energy in the country and accounts for about 67 percent of the country's commercial needs. Coal is an important input in steel and carbo-chemical industries. As on 1 January 2005, coal reserves

of India (down to depth of 1200 metres) have been estimated at 2,47,847 million tonnes.

Lignite reserves in India have been estimated at around 36,009 million tonnes. Lignite reserves have been identified in Rajasthan, Gujarat, Jammu and Kashmir and Kerala to the extent of 3,845 million tonnes, 1,816 million tonnes, 128 million tonnes and 108 million tonnes respectively.

The importance of increasing the use of renewable energy sources was recognised in the country as far back as the 1970s. The country has developed a very large programme for renewable energy. It covers almost all major renewable energy sources such as biogas, biomass, solar energy, wind energy, small hydro power and other emerging technologies. The Ministry of Non-conventional Energy Sources created in 1992 is the nodal agency of the government for all matters relating to non-conventional / renewable energy.

India receives 5000 trillion kwh of solar radiation per year. Most parts of the country have 300 clear sunny days in a year. It is possible to generate 20 MW solar power per square kilometer land area. Solar energy is being tapped for a variety of applications like cooking, water heating, drying of farm produce, water pumping home and street lighting, power generation for meeting decentralised requirements in villages, schools and hospitals.

India now ranks fifth in the world in wind power capacity after Germany, USA, Denmark and Spain. The gross wind power potential of India is estimated to be about 45,000 MW, while the present technical potential is limited to about 13,000 MW governed by the grid capacity in the potential states.

Oil and Natural Gas Corporation (ONGC) and Oil India Limited (OIL), the two national companies and a few private and joint venture companies are engaged in exploration and production of crude oil and natural gas in the country. Crude oil production in the country

during the year 2003-04 was 33.378 MMT. Production of natural gas during the same period was about 31.96 billion cubic meters.

Atomic Energy

The Department of Atomic Energy, established on 3 August 1954, has been engaged in the development of nuclear power technology, application of radiation technologies in the field of agriculture, medicine, industry and basic research. It supports 7 institutes of international repute engaged in research in basic sciences, astronomy, astrophysics, cancer research and education, etc. The Department being an integrated organisation comprises 5 research centres, 3 industrial organisations, 4 public sector undertakings, and 3 service organisations.

The Indian nuclear power programme started off in the sixties. The DAE has a 3-stage programme. Stage-I comprises setting up of pressurised heavy water reactors (PHWR) and associated fuel cycle facilities. Stage-II envisages setting up fast breeder reactors (FBR) backed by reprocessing plants and plutonium based fuel fabrication plants. Stage-III is based on thorium-233 cycle. Uranium-233 is obtained by irradiating thorium. NPCIL is responsible for design, construction, and operation of nuclear power reactors. IGCAR is engaged in design and development of liquid sodium cooled FBRs. BHAVINI, a new company, is responsible for implementing Prototype Fast Breeder Reactor (PFBR) in collaboration with IGCAR and NPGL. BARC is now developing Advanced Heavy Water Reactor for thorium utilisation, which is abundant in India.

Initially an atomic power station was set up in Tarapur (Maharashtra) - commissioned in 1969. The first two PHWRs built at Rawatbhata (Rajasthan) started commercial production in 1972 and 1980. Two 2x220 PHWR was commissioned at Kakrapar in 1982 and 1995. In 1999-2000, 2x220Mwe

PHWR came online each at Kaiga (Karnataka) and Rawatbhata (Rajasthan). Now Nuclear Power Corporation is operating 14 nuclear power reactors, with a total installed capacity of 2720 Mwe. It has gained an experience of over 200 reactor years of nuclear power plant operation. The total generation of nuclear power since the commencement of their commercial operation stands at 1,85,640 million units till Dec 2002.

National Power Grid

The Union government in 1980 approved in principle the establishment of a Centrally owned and operated national power grid. The national grid would eventually comprise strong regional networks with suitable HVDC links between the regions. The inter-regional power transfer capacity today has been raised to 4350 MW from a mere 500 MW in 1992-93. The inter-regional HVDC back to back links Vindhyachal (2X250 MW) connecting Western and Northern regions, Bhadrawati (2X500 MW) connecting Western and Southern Region, Gazuwaka (1X500 MW) connecting Eastern and Southern Region are in operation. These as well as the other AC links between regions form the important components of the National Power Grid. The basic framework

of the Power Grid shall be in place after completion of ongoing East-North Sasaram HVDC inter-connection scheduled for completion by 2002. The power transfer capacity is also planned to be enhanced in a progressive manner up to 14000 MW by 2004-05 and up to 30,000 MW by the year 2012 through establishment of various inter-regional AC and HVDC links along with transmission highways planned for future. The Power Grid Corporation of India Limited established in 1989 has been vested with the responsibility of developing the National Grid.

Rural Electrification: In 1947, only 1500 villages in the country were electrified. Now under the rural electrification programme 5,06,401 (86.2%) villages out of the total 587258 villages have been electrified. Similarly, a total of 1,24,45,010 million pumpsets have been energised up to February, 2000 out of the total estimated potential of energisation of 19.6 million pumpsets thus achieving 63% of energisation target for pumpsets. The Government launched Kutir Jyoti Programme on the occasion of Nehru Centenary Year (1988-89) for extending single point connection to the households of rural poor families below poverty lines. This programme is also being given priority in the rural electrification schemes.

Transportation

Railways

Railways provide the principal mode of transportation for freight and passengers. The first ever train in India was flagged off from Bombay to Thane on April 16, 1853. The distance was just 34 kms. It is now one of the world's largest transportation systems.

The total network route km is 63,221 and the number of employees 1.54 million. The number of trains every day is around 11,000, of which 7000 are passenger trains. It has now grown into a network of 7,031 stations, with a fleet of 7,817 locomotives, 5,321 passenger service vehicles, 4904 other coaching ve-

les and 2,28,170 wagons as on 31 March 04.

Way Zones

ne (16)	Headquarters
uthern	Chennai
estern	Mumbai (Church Gate)
entral	Mumbai CST
orthern	New Delhi
itern	Kolkata
uth-Eastern	Kolkata
orth-Eastern	Gorakhpur
uth-Central	Secunderabad
orth-East Frontier	Maligaon (Guwahati)
orth-Central	Allahabad
st-Central	Hajipur
orth-Western	Jaipur
st-Coast	Bhubaneswar
uth-Western	Hubli
est-Central	Jabalpur
uth-East Central	Bilaspur

Shipping and Ports

India has a 7617 km long coastline. About % of India's foreign trade by volume and % by value moves through ports.

There are 12 major Ports in India, viz. Kolkata (including Haldia), Paradip, Visakhapatnam, Chennai, Ennore and Tuticorin on the East coast; and Cochin, New Mangalore, Mormugao, Jawaharlal Nehru (JNPT), Mumbai and Kandla on the West coast.

There are 185 minor/intermediate ports under the administrative control of concerned maritime State Government. Out of these, about 43 ports handle cargo.

During 2003-04, minor ports handled about 113.41 MT of cargo traffic which is approximately 25% of the total cargo traffic handled by the Indian ports.

As on 1 April 2005, there were 686 ships registered in India with a Gross tonnage (i.e. freight carrying capacity) of 8.01 million tonnes. India has the largest merchant shipping fleet among the developing countries and ranks 19th amongst the countries with the largest cargo carrying fleet

with 7.07 million GT and the average of the fleet being 17 years. During 2003-04, the overall share of Indian ships in India's overseas trade was about 16.9%. There are 28 shipyards in the country; 7 under Central public sector, 2 under State Governments and 19 under private sector.

Inland Waterways

Three inland waterways have been declared as National Waterways. They are: (1) NW-1: Alahabad-Haldia stretch (1620 km) of the Ganga-Bhagirathi-Hoogly river system; (2) NW-2: Sadiya-Dhubri stretch (891 km) of the Brahmaputra river; and (3) NW-3: Kottapuram-Kollam stretch (168 km) of the West Coast Canal along with Champakara Canal (923 km) and Udyogmandal Canal (14 km).

During the 9th Plan period there was additional capacity creation to the extent of 124.40 MTPA in the 12 major ports resulting in aggregate capacity for these ports reaching 343.95 MTPA by the end of the 9th Plan period.

By the terminal year of the 10th Plan in 2006-07, traffic in major ports is projected to reach 415 million tonnes whereas aggregate capacity in major ports is expected to reach a level of 470.60 MTPA.

Roads

India has a vast road network of about 3.32 million km that includes National Highways, State Highways, major district roads and rural roads. The length of National Highways in the country at the time of Independence (1947) was 21,440 km. Today, the length of National Highways is 65,569 km, the length of State Highways is 1,31,859 km, the length of major district roads is 4,67,753 km and the length of rural roads is 25,50,000 km.

Roads carry about 75% of the freight traffic and about 85% of the passenger traffic in the country. National Highways carry 20-25% of the entire national traffic in the country.

The number of district roads in

registered motor vehicles in India (as per year 2002 data) is 5,88,63,000 that includes 4,14,78,000 two-wheelers, 75,71,000 cars, jeeps and taxis, 6,69,000 buses, 30,45,000 goods vehicles and 61,00,000 other vehicles. Traffic on the roads is growing at the rate of 7 to 10% per annum.

Civil Aviation

The civil aviation sector in India is now undergoing a rapid phase of expansion. Despite the nation's population of more than a billion people, it has just 165 commercial planes. But the country is changing rapidly, emerging as one of the fastest growing markets. Air traffic in India has been growing rapidly, adding around 275,000 passenger seats in 2004, and it is expected to add more than 325,000 in 2005.

Existing Position: There are 449 airports/airstrips in the country. Among these, the AAI owns and manages 92 airports and 28 civil enclaves at defence airfields and provides air traffic services over the entire Indian airspace and adjoining oceanic areas.

In 1996-97, these 120 airports/civil enclaves handled 3.96 lakh aircraft movements involving 243 lakh domestic and 122 lakh international passengers, and 20 lakh metric tonnes of domestic and 4.8 lakh metric tonnes of international cargo. 52% of traffic was handled at the international airports at Mumbai and Delhi. Presently, the various airlines are operating only through 61 airports. The remaining are lying unutilised, at best handling occasional aircraft operations.

Historically, air traffic at Indian airports has broadly followed a particular distribution pattern, except that some airports have changed their inter se positions vis-a-vis volume of traffic.

Airports are presently classified in the following manner: (i) International Airports: These are declared as International Airports and are available for scheduled

international operations by Indian and foreign carriers. Presently, Mumbai, Delhi, Chennai, Kolkata and Thiruvananthapuram are in this category; (ii) Custom Airports: These have customs and immigration facilities for limited international operations by national carriers and for foreign tourist and cargo charter flights. These include Bangalore, Hyderabad, Ahmedabad, Calicut, Goa, Varanasi, Patna, Agra, Jaipur, Amritsar and Tiruchirappally; (iii) Model Airports: These are domestic airports which have minimum runway length of 7500 feet and adequate terminal capacity to handle Airbus 320 type of aircraft. These can cater to limited international traffic, if required. These include Lucknow, Bhubaneswar, Guwahati, Nagpur, Vadodara, Coimbatore, Imphal and Indore; (iv) Other Domestic Airports: All other airports are covered in this category; (v) Civil Enclaves in Defence Airport: These are 28 civil enclaves in Defence airfields.

Proposed Classification of Airports:

1. To develop the capacity of airports in accordance with the future projections, it is proposed to reclassify the airports as follows: (a) International Hubs: This category will be that of 'International Hubs' which may cover airports currently classified as 'International airports' and those eminently qualified to be upgraded as such. These would at present cover Delhi, Mumbai, Chennai, Kolkata and Thiruvananthapuram. Airports at Bangalore, Hyderabad, Ahmedabad, Amritsar and Guwahati can be added to the list as and when the facilities are upgraded to the desired level. International hubs would be used for dispersal of international traffic to the hinterland. In these airports, the facilities shall be of world class standards, including convenient connections to international and domestic passengers, airport-related infrastructure like hotels, shopping areas, conferencing and entertainment facilities,

aircraft maintenance bases, etc.; (b) Regional Hubs: Government is keen to encourage development of regional airlines based on small aircraft to provide air linkages in the interior areas of the country. Regional hubs will have to act as operational bases for regional airlines and also have all the facilities currently postulated for model airports, including the capability to handle limited international traffic. The identification of

Regional Hubs will be made on the basis of origin-destination surveys, traffic demand and the requirements of the airlines. State Govt. will be closely associated as co-promoters of regional airlines; (c) Other operational airports: These will be developed so as to be cost-effective on the basis of individual needs to meet the requirements of traffic handled by them. Airports serving State Capitals will be given priority.

Defence

The Army

The Army is organised into five operational Commands, viz., Southern, Eastern, Western, Central and Northern Command and one Training Command. The Army consists of a number of arms and services. At the Army Headquarters in New Delhi, the Chief of the Army Staff is assisted by the Vice-Chief of the Army Staff and seven other Principal Staff Officers.

Navy

The Navy is responsible for defence and security of India's maritime interests and assets, both in times of war and peace. The Chief of the Naval Staff at the Naval Headquarters, New Delhi, is assisted by four Principal Staff Officers. The Navy has three commands, i.e., Western, Eastern and Southern, with their headquarters located at Mumbai, Vishakhapatnam and Kochi respectively. At present, it has two major Naval bases at Mumbai and Vishakhapatnam.

Air Force

The Indian Air Force, established more than six decades ago, has indeed come a

long way to become a balanced and potent world class Air Force in the world. There are five operational commands. These are: Western Air Command, South-Western Air Command, Central Air Command, Eastern Air Command and Southern Air Command. In addition, Maintenance Command and Training Command are two functional commands. The Air Headquarters is in New Delhi.

Women in the Armed Forces

While provision has all along existed for women to join the Armed Forces Medical Services, the Armed Forces Dental Services and the Military Nursing Service, Section 12 of the Army Act provided that women would not normally be eligible for enrolment in the Army. Similar provisions also existed in the cases of the Air Force and the Navy. However, in acknowledgement of the changing times, the Government has approved the induction of women into selected non-combatant branches in the three Forces. The entry of women is mainly in the officer cadres and on Short Service Commission basis. Further continuance depends on

the basis of the experience gained. In pursuance of this decision, several women officers have since joined the Service, in the EME, Signals, Engineers, Army Education Corps, Army Ordnance Corps, Army Service Corps and in the Judge Advocate General Department.

Coast Guard

The Coast Guard came into being on 1 February 1977 and was constituted as an independent Armed Force of the Union of India with the enactment of CG Act 1978 on 18 August 1978. The Coast Guard's broad Charter of Duties includes: (a) Safety and protection of offshore installations and artificial islands; (b) Providing protection to fishermen in distress; (c) Protection of maritime environment; (d) Assisting Customs in anti-smuggling operations; (e) Enforcement of MZI Act; and (f) Safety of life and property at sea.

National Cadet Corps (NCC)

The National Cadet Corps (NCC) established on 15 July 1948 has emerged as the single largest structured youth movement in India. It has 12 lakh boys and girls in the Senior and Junior Divisions in the Army, Navy and Air Force Wings. This strength covers 3.8% of the eligible student population in the country. Director General, NCC located at New Delhi controls and oversees various activities of the NCC through 16 NCC Directorates spread across the country.

Military Education & Training: Major Institutions are: Sainik Schools, National Defence Academy (NDA), Khadakwasla, The Indian Military Academy (IMA), Dehradun, The Officers' Training Academy, (OTA) Chennai, Rashtriya Indian Military College, Dehradun, The National Defence College (NDC), Army Cadet College (a wing of IMA), Army School of Physical Training (ASPT), Pune, The College of Combat,

Mhow, College of Military Engineering Kirkee (Pune), The Military College of Telecommunication Engineering, Mhow, The Armoured Corps Centre and School Ahmednagar, The School of Artillery, Deolali, The Air Defence Guided Missile School at Gopalpur-on-sea, The High Altitude Warfare School - Gulmarg, Sonmarg, The Counter Insurgency and General Warfare School, Vairengate, and The College of Materials Management, Jabalpur.

Defence Research

The Defence Research & Development Organisation (DRDO) has embarked on a journey to empower India with the cutting edge defence technology in pursuit of technological excellence.

The DRDO executes various R&D projects through a network of 51 laboratories spread across India. The department has a technical work force comprising 6,000 scientists, engineers and 35,000 office personnel.

In 2004, MBT Arjun has rolled out making everybody proud. It is the state-of-the-art flagship of Indian armour. It is fortified with laser range finder, Israeli missiles, thermal sighting equipment, etc.

The supersonic missile BRAHMOS is the outcome of a joint venture between India and Russia. It has been flight-tested and inducted into services. The production facilities have also been geared up in both the countries to meet the orders.

The first Technology Demonstrator was flight-tested on January 4, 2001. The second Technology Demonstrator made its maiden flight on June 6, 2002. Till now 32 test flights have taken place. To accelerate the pace of development and flight trials, 5 more prototype vehicles PV1-PV5 are being built. The Light Combat Aircraft (LCA) is planned to be inducted into Air Force after the initial operational clearance in 2005-06.

Agni I, a single stage solid propelled

ssile having a range of 800 kms was fired in January 2004 and also 2003. The range fills the gap between Prithvi and the Intermediate Range Ballistic Missile. This missile can be fired from both rail or road missile launchers.

Another success story is the Pinaka. It is

an Area Weapon System and has undergone confirmatory user trials successfully in July, 2003. The System has met users' requirements for accuracy and consistency. The PINAKA has the capability of firing in a single salvo 12 rockets in less than 40 seconds with a range of 38 kms.

The First War of Independence

The year 1857 is very significant in the history of India's freedom struggle. It witnessed a revolt, which the British historians have dubbed the *Sepoy Mutiny* and the Indian historians, the *First War of Independence*. The 150th anniversary of this event was marked in 2006.

In the summer of 1857 the massed clouds burst and the entire British dominion in India shook to its foundations. Troubles first broke out in *Berhampore of Bengal* on February 26 in the 19th Bengal Infantry. The first shot was fired on March 29 by Mangal Pandey (Ballia, U.P.) of the 34th Bengal Infantry at Barrackpore of Bengal. Mangal Pandey was hanged at Barrackpore on April 8.

Mutiny started on May 10 at Meerut, followed in Delhi on May 11.

Though the revolt began as a mutiny of Indian soldiers against their British commanders, it soon changed its character and became a fight against British rule as such.

Indian soldiers had broken out in open mutiny against British officers many times previously—in 1806 at Vellore (Madras), in 1842 in Bengal, in 1844 in Sind, then in Bihar and Punjab. None of these had any political overtones. But the so-called Mutiny of 1857 differed radically in this respect. The two elements—military and political coalesced in the revolt of 1857.

The Indian soldiers having massacred the British personnel in Meerut, marched to Delhi

and proclaimed the aged Mughal Emperor Bahadur Shah II as the Emperor of India. Bahadur Shah promptly issued a proclamation *urging upon the people of India—Hindus and Muslims alike*—"to end the tyranny and the oppression of the infidel and treacherous English."

The British recaptured Delhi from the mutineers on September 20. Bahadur Shah surrendered to Lt. W.S.R. Hodson on September 21 at *Humayun's Tomb* in Delhi.

The immediate results of the 1857 revolt were :

1. The administration of British India, until then under the control of the Board of Directors of the East India Company, was taken over by the British Government. Queen Victoria was proclaimed the Empress of India and the Governor General was designated the Viceroy and Governor General.

2. The British Indian army was re-organised. The quota of British personnel in the army was considerably enhanced and the artillery divisions were manned entirely by the British. In addition, many purely British regiments were formed.

3. The paramountcy of the British Government was proclaimed, that is to say, all ruling kings and titular princes of India were declared feudatories of the British Crown. This proclamation raised many eyebrows among Indian princes, but there was little they could do in the matter.

Internal Security

Border Management

India has 15106.7 km. of land border running through 92 districts in 17 States and coastline of 7516.6 km. touching 13 States and Union Territories (UTs). India also has a total of 1197 islands accounting for 2094 km. additional coastline. In fact, barring MP, Jharkhand, Delhi and Haryana, all other States in the country have one or more international borders or a coastline and can be regarded as frontline States from the point of view of border management.

The length of India's land borders with neighbouring countries are:

Country	Length of the border
Bangladesh	4096.7 km.
China	3488 km.
Pakistan	3323 km.
Nepal	1751 km.
Myanmar	1643 km.
Bhutan	699 km.
Afghanistan	106 km.

Central Police Forces

There are 7 Central Police Forces under the Union Government, namely Assam Rifles (AR), Border Security Force (BSF), Indo-Tibetan Border Police (ITBP), Central Reserve Police Force (CRPF), Central Industrial Security Force (CISF), Sashashtra Seema Bal (SSB) and National Security Guard (NSG).

Tackling Natural Calamities

The Ministry of Home Affairs is the nodal ministry for tackling natural calamities. MHA remains in touch with the affected State Governments during crises and coordinates emergency relief and response of the Central Gov-

ernment which includes search, rescue, evacuation, air dropping and air lifting, communication, transport, food grains and other essential commodities, medicines, etc.

Facility to Freedom Fighters

Freedom fighters' pension has been increased to 168906 persons including dependants. They are provided various facilities like free railway pass, free medical facilities in all the Central Government hospitals and C.G.H.S. facilities, telephone connection without installation charges and payment of half the rental, General Post Government accommodation in Delhi, Dealership/distributorship of petroleum products allotted through Dealer Service Boards, etc.

Naxal and Maoist Activities

The Government has adopted a more pronounced strategy to combat the problem of naxalism which inter alia includes steps like removal of naxalite camps, accelerated economic development, increased employment opportunities, removal of socio-cultural alienation of people, and effective anti-naxalite operations. The incidents of naxalite violence were 1335 during 2004 (as on October 31, 2004) in the country and the number of deaths were 424 (as on October 31, 2004).

Issue of Passport/Visa

Fourteen types of visas are issued to foreign nationals for different purposes. The number of registered foreigners in India (excluding Pakistanis) as on October 31, 2004 was 3,34,574.

Space Technology

The ISRO space programme has come a long way from a modest beginning with the Nike Apache rocket launch with sodium vapour payload on Nov. 21, 1963. The launch vehicle development programme later shifted from Thumba to the Sriharikota launching station in 1969. The ISRO's maiden venture in developing satellite launch vehicle was itself a failure with the SLV-3 failing due to malfunctioning of first stage control system in August 1979. Undeterred by it, the developmental flight of SLV-3 attempted in 1983 brought happy tidings for the ISRO as the satellite sent home more than 2,500 pictures. While the Augmented Satellite Launch Vehicle (ASLV) launched in 1987 had problems in thrust power due to malfunctioning in first stage motor, its successor sent in July 1988 was a miserable failure as it could last only about 150 seconds before it met with its watery grave in the Bay of Bengal. In May 1992 ISRO launched the ASLV-3 which hoisted the Stretched Rohini Satellite (SROSS). Its successor launched in May 1994 was a success.

Major Achievements

1962: Indian National Committee for Space Research (INCOSPAR): formed by the Department of Atomic Energy, and work on establishing Thumba Equatorial Rocket Launching Station (TERLS) near Thiruvananthapuram began.

1963: First sounding rocket launched from TERLS on November 21, 1963

1965: Space Science & Technology Centre (SSTC) established in Thumba

1967: Satellite Telecommunication Earth Station set up at Ahmedabad.

1972: Space Commission and Department of Space setup.

1975: First Indian Satellite, Aryabhata, launched (April 19, 1975)

1979: Bhaskara-1, an experimental satellite launched. First experimental launch of SLV-3 with Rohini satellite on board failed.

1980: Second experimental launch of SLV-3 Rohini satellite successfully placed in orbit.

1981: APPLE, an experimental geostationary communication satellite successfully launched on June 19.

1981: Bhaskara-II launched on November 20.

1982: INSAT-1A launched (April); deactivated in September.

1983: Second launch of SLV-3.RS-D2 placed in orbit. INSAT-1B launched.

1984: Indo-Soviet manned space mission (April). Rakesh Sharma became the first Indian to reach space

1987: ASLV with SROSS-1 satellite on board launched.

1988: First Indian remote sensing satellite, IRS-1A launched. INSAT-1C launched (July). Abandoned in November.

1990: INSAT-1D launched successfully.

1991: Launch of second operational Remote Sensing satellite, IRS-1D (August)

1992: Third developmental launch of ASLV with SROSS-C on board (May). Satellite placed in orbit. First indigenously built satellite INSAT-2A launched successfully.

1993: INSAT-2B launched in July success-

Internal Security

Border Management

India has 15106.7 km. of land border running through 92 districts in 17 States and a coastline of 7516.6 km. touching 13 States and Union Territories (UTs). India also has a total of 1197 islands accounting for 2094 km. of additional coastline. In fact, barring MP, Chhattis-garh, Jharkhand, Delhi and Haryana, all other States in the country have one or more international borders or a coastline and can be regarded as frontline States from the point of view of border management.

The length of India's land borders with neighbouring countries are:

Country	Length of the border
Bangladesh	4096.7 km.
China	3488 km.
Pakistan	3323 km.
Nepal	1751 km.
Myanmar	1643 km.
Bhutan	699 km.
Afghanistan	106 km.

Central Police Forces

There are 7 Central Police Forces under the Union Government, namely Assam Rifles (AR), Border Security Force (BSF), Indo-Tibetan Border Police (ITBP), Central Reserve Police Force (CRPF), Central Industrial Security Force (CISF), Sashashtra Seema Bal (SSB) and National Security Guard (NSG).

Tackling Natural Calamities

The Ministry of Home Affairs is the nodal ministry for tackling natural calamities. MHA remains in touch with the affected State Governments during crises and coordinates emergency relief and response of the Central Gov-

ernment which includes search, rescue and evacuation, air dropping and air lifting, communication, transport, food grains and essential commodities, medicines, etc.

Facility to Freedom Fighters

Freedom fighters' pension has been sanctioned to 168906 persons including their dependants. They are provided various facilities like free railway pass, free medical facilities in all the Central Government hospitals and C.G.H.S. facilities, telephone connection without installation charges and payment of half the rental, General Pool Government accommodation in Delhi, 2% dealership/distributorship of petroleum products allotted through Dealer Selection Boards, etc.

Naxal and Maoist Activities

The Government has adopted a multi-pronged strategy to combat the problem of naxalism which inter alia includes peace talks with naxal outfits, accelerated economic development, increased employment opportunities, removal of socio-cultural alienation of the people, and effective anti-naxalite police actions. The incidents of naxalite violence were 1335 during 2004 (as on October 31, 2004) in the country and the number of deaths during 2004 (as on October 31, 2004) 468.

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Fourteen types of visas are issued to foreign nationals for different purposes. The number of registered foreigners living in India (excluding Pakistanis) as on 31.12.2003 was 3,34,574.

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1990: INSAT-1D launched successfully.

1991: Launch of second operational Remote Sensing satellite, IRS-1D (August)

1992: Third developmental launch of ASLV with SROSS-C on board (May). Satellite placed in orbit. First indigenous satellite INSAT-2A launched

1993: INSAT-2B launched

fully. First developmental launch of PSLV with IRS-1E on board fails.

1994: Fourth developmental launch of ASLV successful (May). Second developmental launch of Polar Satellite Launch Vehicle (PSLV) with IRS-P2 successful (October).

1995: INSAT-2C launched in December. Third operational IRS (IRS) launched.

1996: Third developmental launch of PSLV with IRS-P3 successful (March).

1997: INSAT-2D launched in June becomes inoperational in October. Arabsat 1C, since renamed INSAT-2DT, acquired in November. First operational launch of PSLV with IRS-1D successful (September).

1998: INSAT system capacity augmented with the readiness of INSAT-2DT acquired from Arabsat (January).

1999: INSAT-2E the last satellite in the multi-purpose INSAT-2 series, launched by Ariane from Kourou French Guyana (April 3, 1999). IRS-P4 (OCEANSAT) launched by Polar Satellite launch Vehicle (PSLV-C2) along with Korean KITSAT-3 and German DLR-TUBSAT from Sriharikota (26 May 1999).

2000: INSAT-3B was launched on 22 March 2000.

2001: Geosynchronous Satellite Launch Vehicle-D1 (GDLV-D1), the first developmental launch of GSLV with GSAT-1 on board partially successful.

2002: INSAT-3C launched successfully by Ariane space (January), PSLV-C4 launches KALPANA-1 (September)

2003: GSLV-D2, the second developmental launch of GSLV with GST-2 successful (May).

2004: First operational flight of GSLV (F1) successfully launches EDUSAT (September).

2005: Launch of CARTOSAT and HAMSAT by PSLV-C6 from the second launch pad (Universal Launch Pad) (May)

2006: INSAT 4A launched. Planned launch of CARTOSAT-2 SRE and LAPAN-TUBSAT

2006: INSAT 4C launch was unsuccessful
The ISRO decade plan include the following launch schedule:

2005-2006: One PSLV launch (PSLV-C7). Launch of CARTOSAT -2, SRE-1, INSAT-4A and INSAT-4B.

2006-2007: One PSLV launch, (PSLV-C8), and three GSLV launches (GSLV-D3, F2, F3). Launch of OCEANSAT-2, GSAT-4, INSAT-4C and INSAT-4D.

2007-2008: Three PSLV launches (PSLV-C9, C10, C11), two GSLV launches (GSLV-F4, F5) and one GSLV-III launch (GSLV-III-D1). Launch of CHANDRAYAAN, ASTROSAT, RISAT-1, GSAT(MKIII), INSAT-3D and INSAT-4E.

Literacy and Education

In 1951 India's literacy was only 18.3 per cent. Today the rate stands at 64.8 per cent. Quite a big leap for independent India. However, India continues to lag behind several other developing countries in the region.

China's adult literacy rate was 78.3 in 1990 and 85.8 in 2001, when India reported 49.3 and 58.0 respectively. Sri Lanka posted youth literacy rate of 95.1 (1990) and 96.9 (2001) while India's rates were 64.3 and 73.3 respectively.

Census data indicate that the number of literates in India grew by 52 percent in 1981-91 and 59 percent in 1991-2001. The absolute number of illiterates increased during 1981-91 but substantially declined during 1991-2001.

The National Policy on Education (1986) provides a broad policy framework for eradication of literacy and sets a goal of expenditure on education at 6 percent of the GDP. As against the goal of 6 percent, the total expenditure on education by both central and state governments was only 3 percent of GDP in 2002-03.

Literacy rates in India (1951-2001)

Census Year	Persons	Male	Female	Male-Female gap in literacy rate
1951	18.33	27.16	8.66	16.30
1961	28.30	40.40	15.35	25.05
1971	34.45	45.96	21.97	23.98
1981	43.57	56.38	29.76	26.62
1991	52.21	64.13	39.29	24.64
2001	64.84	75.85	54.16	21.69

Source : Census of India

Elementary education

In order to fulfil the goal of universal elementary education, Constitutional (86 Amendment) Act, 2002 has been passed by the Parliament.

A comprehensive programme called Sarva Shiksha Abhiyan (SSA) was launched in November 2000 in partnership with the States. The programme aims to improve the performance of the school system through a community-owned approach and to impart quality elementary education to all children in the age group of 6-14 by 2010. It seeks to bridge gender and social disparities at the elementary level. It subsumes all existing programmes, including externally aided programmes, within its overall framework, with the district as the unit of implementa-

tion. National Programme for Education of Girls at Elementary Level (NPEGEL) has been launched for education of girls at elementary level under SSA.

There were 6.51 lakh primary schools and 2.45 lakh upper primary schools in 2002-03. During 2001-02 and 2002-03 the growth rate of enrolment for girls at the elementary level was higher than that of boys. Participation of girls at all levels of school education has improved appreciably over the years, but vast disparities amongst the States in Gross Enrolment Ratio (GER) at primary/upper primary level persist with States in the North-East performing better than others.

Of the estimated population of 205 million in the age group of 6-14 years on March 1, 2002, nearly 82.5 percent was enrolled in schools, compared with 82.4 percent in 2001-02. The student retention at the primary school stage was about 59 percent (1992-1997). At the primary level, the dropout rate decreased from 39 percent in 2001-2002 to 34.9 in 2002-2003. At the upper primary level, the dropout rate decreased from 54.6 percent in 2000-2001 to 52.8 over the same period. The drop out rate of girl students was 33.7 percent and 53.5 percent at the primary and upper primary levels respectively, in 2002-2003.

The Pupil Teacher Ratio (PTR) at the primary level has remained more or less constant at 43:1 during 2001-02. At the upper primary level, it was 34:1.

Adult Education

The National Literacy Mission was launched on May 5, 1988 as a Technology Mission to impart functional literacy to non-literates in the country in the age group of 15-35 years in a time-bound manner. The National Education Policy-1986 as modified in 1992, also has recognized the National Literacy Mission as one of the three instru-

ments to eradicate illiteracy from the country, the other two being Universalisation of Elementary Education and Non-formal Education.

The Mission objective is to attain a sustainable threshold literacy rate of 75 percent by 2007. The Total Literacy Campaign (TLC) has been the principal strategy of National Literacy Mission for eradication of illiteracy in the target age-group.

Secondary Education

The Secondary Education sector prepares students in the age group of 14-18 years for entry into higher education as well as for the world of work. The number of secondary and senior secondary schools during 2002-03 is 1,37,207 with an enrolment of students of 33.2 million.

University & Higher Education

There has been an impressive growth in the area of university and higher education. Accreditation of all Universities and Colleges has been made mandatory. Students' enrolment in higher education rose from 7.26 million in 1997-98 to 9.51 million in 2003-04. Enrolment of women students rose to

3.81 million with women constituting 40 percent of the total in 2003-04. There has been a significant increase in the students' enrolment under Open and Distance Education System.

At present, there are 306 university-level institutions in India (including 18 Central Universities, 186 State Universities, five Institutions established under State Legislature Act, 82 Deemed Universities and 13 Institutes of national importance). Of these, 38 Institutions provide education in agriculture (including forestry, dairy, fisheries and veterinary science), 21 in medicine (including Ayurveda), 44 in engineering and technology, and four in Information Technology, four in Legal Studies. The number of Open Universities is nine and that of Women Universities is five.

Technical and Professional Education

There are 1,349 approved engineering colleges at the degree level. Apart from this, 1,030 institutes offer a Master of Computer Application (MCA) programme. There are 990 approved Management Institutes imparting MBA courses.

Indo-Anglian Writing

Though foreign in its origin, English has been adopted in India as a language of education and literary expression besides being an important medium of communication on a vast scale. Its history in India commences with Ram Mohan Roy's (1774-1833) campaign for introduction of scientific education in India through the English medium. He could use the English language effectively though

he learnt it only after he was 16 years of age. But when Vivekananda spoke and wrote in English, Americans described him as a 'perfect master of the English language'.

Among those whose writings in prose are considered as literature the name of Jawaharlal Nehru (1889-1964) stands out. He is particularly remembered for his *Glimpses of World History*, *Discovery of India* and *An*

Autobiography (1936). Gandhiji is reported to have cultivated English carefully. The language became a sharp and strong instrument in his hands. His precision, economy and clarity in the use of English is unequalled. Nirad Choudhuri (b. 1897-1999) is an internationally accepted writer of English. His *Autobiography of an Unknown Indian* (1951) is particularly well known.

We have the extraordinary girl Toru Dutt (1855-76) who died at 21 leaving some fine poems; and then we have Sarojini Naidu (1879-1949) whose romanticism charmed readers in India and Europe. (*Golden Thresh-old, The Broken Wing*). Aurobindo (1872-1950) who had his education in Cambridge mastered not only English, Greek and Latin but also French and Italian. (*Savitri, Life Divine*-2 vols). Tagore's *Gitanjali* won the Nobel Prize in 1913. The lyrical quality of *Gitanjali* is universally accepted.

During the contemporary period, we have quite a few Indians, who write poetry in English: Dom Moraes (*A Beginning*, which won 19-year-old undergraduate of Oxford University the prestigious Hawthornden Prize), Nissim Ezekiel (*The Unfurnished Man*), P. Lal, A.K. Ramanujan, Kamala Das, Arun Kolatkar, R. Parthasarathy, etc. Dom Moraes also produced excellent autobiographical works *Son of My Father and Never at Home*. Keki Daruwalla and Shiv K. Kumar are other noted names.

In the field of Indian English novel, the three senior writers who began to write in the early thirties are Mulkraj Anand, R.K. Narayan and Raja Rao. Anand's major novels *Coolie* (1933), *Untouchable* (1935), *The Woman and the Cow* (1960) reveal his concern for the underprivileged in India.

R.K. Narayan has projected 'Malgudi' as the locale for most of his stories. *Swami and His Friends* (1935), *Bachelor of Arts* (1937), *The Financial Expert* (1952), *The Guide* (1959) and *Waiting for the Mahatma* (1955) are his

popular novels. Raja Rao's *Kanthapura* (1938), *The Serpent and the Rope* (1960) and *The Cat and Shakespeare* (1965) are significant achievements.

Other novelists of repute are G.V. Desani (*All About H. Hatterr*, 1948), M. Ananthanarayanan, Bhabani Bhattacharya, (who died in the U.S. in 1988), Manohar Malgonkar, Arun Joshi, Kamala Markandaya, Anita Desai (*Clear Light of Day*, 1980), Bharati Mukherjee, Khushwant Singh, Nayantara Sahgal, O.V. Vijayan and Salman Rushdie. As regards drama and the essay the contribution is not substantial. Among the critics and historians of literature are K.R. Sreenivasa Iyengar, C.D. Narasimhaiah and M.K. Naik.

Other big names in Indo-Anglian writing include Ruskin Bond (*The Room on the Roof*) Vikram Seth (*A Suitable Boy*), Allan Sealy (*The Trotter-Nama*), Shashi Tharoor (*Show Business, The Great Indian Novel*), Amitav Ghosh (*Circle of Reason, Shadow Lines*), Upamanyu Chatterjee (*English August*), Vikram Chandra (*Red Earth and Pouring Rain*), Shobha De, and Ginu Kamani.

Indian writing has thrown up names of the calibre of Manjula Padmanabhan (*The Harvest*), Booker-winner Arundhati Roy (*The God of Small Things*), Manju Kapur (*Difficult Daughters*), Raj Kamal Jha (*The Blue Bed Spread*), Anurag Mathur (*The Inscrutable Americans*), Manil Suri (*The Death of Vishnu*), Pulitzer Prize winning Jhumpa Lahiri (*The Interpreter of Maladies, The Namesake*), Kiran Desai (*Hullabaloo In A Guava Orchard, Inheritance of Loss*), Ruchira Mukherjee (*Toad In My Garden*), Shashi Tharoor (*Riot: A Novel*), David Davidar (*A House of Blue Mangoes*), Kavita Daswani (*Everything Happens For A Reason*) and Rohinton Mistry (*Family Matters*).

Recent works include Gautam Malkani's *Londonstani*, Upamanyu Chatterjee's *Weight Loss*, Manju Kapoor's *Home* and Amitav Ghosh's *The Hungry Tide*.

Health Scenario - Importance of Cardiac Care

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Hearth diseases contribute a major share in the health problem of India. The faster pace of industrialization and also the inroad of the Western culture have added to the menace of health care issue. These factors increase the stress load and also the risk of development of major factors which may contribute to the occurrence of heart diseases. Maladjustments and social, psychological and financial strain that occur when we try to artificially put the foreign customs and culture into our well reputed ones lead to alteration in the body's natural physiologic mechanism that can lead to a variety of major illnesses including heart disease. One such classical example is the shift from the sacred joint family set up to the present shattered nuclear family concept (reality).

Heart diseases do not constitute a homogeneous entity; different types of heart diseases exist. In the chronological sequence the common heart diseases can be grouped as (a) congenital heart disease (present at birth; occurs due to derangement in the development of embryo in foetal life) (b) rheumatic heart disease affecting the cardiac valves (secondary to the disease "rheumatic fever" which occurs during school age) (c) hypertensive heart disease (persistent increase in the blood pressure - hypertension) (d) **coronary artery heart disease** (eg: heart attack and angina which results from the narrowing of the coronary arteries which supply oxygenated blood to the heart) and (e) miscellaneous group eg: cardiomyopathies (disease of heart muscle), pericardial diseases (affecting pericardium which is the protective covering of the heart), degenerative dis-

eases (due to the ageing process) etc.

Cardiovascular diseases account for a large population of all deaths and disability all over the world. Global Burden of Disease (GBD) Study (2000) reported that in 1990 there were 5.2 million deaths from cardiovascular diseases in economically developed countries and 9.1 million deaths from the same cause in developing countries. In developing countries this occurred more in relatively younger age group - more than half of the deaths in developing countries occurred in those under 70 years. In 1990 cardiovascular diseases caused 2.3 million deaths in India which accounted for 25% of the total deaths. Of this half was due to coronary artery heart disease. By 2020 this number is likely to get doubled.

As per the data of the GBD study the leading causes of death in developing countries like India are ischemic heart disease (9.1%), cerebrovascular disease (8%), lower respiratory infection (7.7%), AIDS (6.9%) and lung diseases (8.7%). Apart from the death rate, disability plays a central role in the health status of a population. The leading causes of disability are substantially different from those of death. Lower respiratory infections rank as the leading cause of death in developing countries. However heart diseases especially ischemic heart disease contribute significantly to disability in countries like India.

Burden of coronary heart disease in India

As mentioned earlier, in 1990 1.2 million deaths in India were due to coronary heart disease which has increased to about 1.59 million

2000 and this is likely to double by 2020 compared to a 15% rise in developed countries. This would extrapolate to about 32 million patients with coronary heart disease in India in 2000, compared to 2.7 million in UK. Epidemiological studies have revealed that prevalence of coronary heart disease (CHD) is on the rise in India. There is a difference between rural and urban population. The prevalence has increased in urban areas from about 6% in 1970 to about 10% in 2000; while in rural areas it has increased from 2% to 4.5%. Whether there is an actual increase or the hike is due to improvement in the detection of cases and awareness and health care system have improved is debatable. In terms of absolute numbers there is a very steep increase in CHD cases in both rural and urban areas. In urban population the number of patients with CHD has increased from 4.5 million in 1970 to about 14 million in 2000 whereas in rural population it has increased from 4 million in 1970 to about 6 million in 2000. As the epidemiological studies exclude many patients with silent CHD, the actual number is likely to be still higher.

Burden on Health Care System

As the prevalence of CHD is increasing the number of hospital admissions is also on the rise. This is increasing the burden on health care system. A study from Kerala has shown that there has been a more than twentyfold increase in admissions for heart attack over a period of 25 years.

Economic burden

As per the projected epidemiological data, out of the 32 million patients with CHD in India roughly 8 million would be under some forms of treatment. The average expenditure for treatment comes to about Rs.10 per day ie. Rs.3500 per year. Hence the total financial burden for medical treatment alone comes to about Rs.3000 crores per year. This is in addition to the expenses involved for hospital visits,

laboratory tests, etc. The expenses related to more sophisticated tests and treatment (like coronary angiogram, angioplasty, bypass surgery) have also to be added.

Social burden

Coronary heart disease manifests in Indians at least 10 years earlier than the western population. Premature coronary heart disease causes significant social burden in terms of loss of support for children, women and the elderly. Exact loss to the family in terms of financial and social aspect of such an event is difficult to calculate.

Prevalence of CHD among South Asians (Asian Indians)

The terms "South Asians or Asian Indians" include persons that originated in the Indian subcontinent (India, Pakistan, Bangladesh, Nepal, Bhutan & Sri Lanka) who form the immigrant populations that reside in different parts of the world. Obviously the majority of these will be the Indians and hence the term Asian Indians. It has been observed that Asian Indians throughout the world exhibit the highest prevalence of coronary heart disease and coronary risk factors. Asian Indians are known to have a higher occurrence of a constellation of coronary risk factors (central obesity, diabetes mellitus or pre-diabetes, high BP, high triglyceride (a type of bad cholesterol) levels and low level of the good cholesterol (HDL) – collectively termed as metabolic syndrome.

Compared to the other Asian population, Indians have a very high prevalence of CHD. The prevalence is low for Japanese and is lowest for Chinese population. CHD rates among Indians are six times higher than among Chinese. The higher prevalence rate of cardiovascular disease is partly attributable to the influence of affluence. The change in the culture to that of western and the changes in life style lead to a greater degree and duration of exposure to risk fac-

tors. Differences have been observed in the exercise levels and physical activity patterns of Indians. A higher prevalence of sedentary life style and obesity has been observed in the urban compared to the rural communities. Genetic defects also may be contributing to the higher occurrence of CHD among the Indians.

Prevention

Coronary Artery Heart Disease (Ischemic Heart Disease)

Just like any other organ, heart requires oxygen for generating energy to perform its pumping function. Two major blood vessels, coronary arteries, arising from the origin of aorta supplies oxygenated blood to the heart muscle. As age advances, progressive narrowing of the coronary arteries occurs due to deposition of cholesterol and other materials in their walls. Normally this process, called atherosclerosis, which starts in childhood itself is a gradually progressive phenomenon. However until the blood vessel is narrowed by more than 50% of its diameter, the process will not interfere with the blood flow and hence the disease will not manifest. Certain factors (risk factors) enhance the process of coronary atherosclerosis; the influence is very strong for certain factors which are labelled as major risk factors. Diabetes mellitus (elevated blood sugar), hypertension (high blood pressure), high cholesterol and smoking are considered to be the major risk factors. The most important aspect is the fact that all these factors are modifiable to a great extent and hence the need for stress on the prevention of the disease.

Coronary artery heart disease manifests in different ways – asymptomatic from one end to the catastrophic sudden death at the other end. But the common manifestations are angina, myocardial infarction (heart attack) and heart failure. Partial narrowing (but more than 50% of the diameter) results in angina and abrupt total occlusion leads to myocardial infarction. Damage to the heart muscle due to

defective blood supply causes dilatation of the heart and impairment of its pumping function. This status of the heart is called heart failure.

When the coronaries are narrowed by 50-75% of its diameter, patient starts experiencing the symptoms of angina on exercise; when the narrowing of the vessel exceeds 75% the symptoms appear at rest also. Angina is a symptom complex which includes (a) severe chest pain (located at the central part of chest in front) of a peculiar nature (tightness, feeling of compression, bursting) (b) radiation of the pain to other parts of body like inner aspect of arms (left more often than right), throat, lower jaws, back and upper part of abdomen (c) breathing difficulty (d) sweating, vomiting etc. The symptom is brief lasting about 10-30 minutes.

Sudden total occlusion of the coronary arteries with a fresh blood clot results in a more serious disorder called acute myocardial infarction (heart attack). In this situation the heart muscles are damaged due to the total lack of oxygen supply to the region affected. Symptoms of heart attack are similar to those of angina but more severe and prolonged. Heart attack carries great significance in view of the high fatality and morbidity. About 5-10% of patients suffering from heart attack die before they reach the hospital and another 5-10% die during the initial few days of hospital stay. In addition, heart attack can lead to another major complication called heart failure which interferes with the normal activities of the patient. Hence the importance of prevention of the disease and critical care of such patients.

The progress of atherosclerosis can be prevented or retarded to a great extent and it is even possible to reverse the process. Life style modification and interventions to control the risk factors are the most important. As the process of atherosclerosis starts in childhood itself, the life style modification protocol should start in the younger age. Regular exercise, diet regulation and mental relaxation are the important aspects in life style modification.

Regular exercise should be encouraged from childhood itself. Now what we see is people starting exercise after they have already developed the manifestation of the disease (by this time the disease process has advanced fairly well). Walking, cycling, swimming or any dynamic games for about 45 minutes every morning are all very good activities that can maintain adequate body mass and also prevent the development of diabetes mellitus, hypertension, hypercholesterolemia etc. Exercises which yield mental relaxation like yoga, meditation etc are also very useful.

Diet restriction aimed at prevention of atherosclerosis also should be planned from early years of life itself. Quantity and quality of food are equally important to maintain ideal body weight and to reduce blood sugar and cholesterol. High fiber diet with lot of vegetables, pulses and fruits are ideal. The use of oil has to be restricted by avoiding oily and fried food items. Meat (especially red meat e.g.: beef, mutton etc) and milk and milk products also have to be avoided or restricted.

Prevention and/or modification of risk factors is of extreme importance in prevention of coronary artery disease. Quitting smoking can prevent not only heart disease but also other serious diseases like lung cancer. Diabetes mellitus, hypertension, hypercholesterolemia etc. can be controlled by regular exercise, diet regulation and proper medication.

Congenital Heart Disease

Eight out of 1000 live newborns have congenital heart disease. Though majority are simple problems, there is a sizable number which contribute to disability and death. Advances in the field of medical technology and care are laudable but it is adding to a tremendous financial and psychological burden to the family.

Exact reasons for the deranged development of foetus leading to occurrence of congenital heart disease are not identifiable in more than

95% of cases; hence prevention of this disease entity is also difficult. Nutritional deficiencies, inadvertent use of drugs, exposure to X rays and infections during early pregnancy are the identifiable factors which can be easily taken care of by appropriate caution, care and prevention strategies. However in majority of cases the exact cause is not identifiable and hence prevention of CHD is not an easy task. Familial background and propensity for existence of CHD in certain types of disease entities (e.g: Mongolism) contribute to occurrence of CHD. This can be tackled to a great extent by proper parental counseling. Recent advances in detection of CHD during foetal life itself by newer diagnostic modalities (eg: foetal echocardiography) have made the outcome brighter.

Rheumatic Heart Disease

Throat infection by specific bacteria (streptococcus) in school children leads to development of a disease entity called acute rheumatic fever. During an epidemic of streptococcal throat infection about 3% of affected children may develop acute rheumatic fever within 2 weeks of the infection. As an immunologic sequel to the infection, rheumatic fever manifests as fever, pain and swelling of multiple major joints (shoulders, elbows, wrist, hips, knees, ankles), involuntary movements (called chorea), red patches over skin and small nodules underneath the skin. About half of the affected children will have involvement of heart in the form of inflammation (carditis). As a consequence of the carditis these children can develop abnormality of the heart valves in the form of narrowing (eg: mitral stenosis - narrowing of the valve between the two left heart chambers, left atrium & left ventricle) or inappropriate closure of the valves leading to regurgitation of blood from one chamber to another (eg: mitral regurgitation). Many times these abnormalities are mild; however severe forms of valve disease can produce troublesome symptoms (breathing difficulty, palpitation, swelling of feet

etc) and disability. Advances in the field of surgery and non surgical techniques have resulted in a very bright future for these patients.

More important than the fact that effective treatment is available for those with established rheumatic valvular heart disease is the reality that the disease entity is preventable. As the disease is secondary to a simple bacterial infection, prevention and prompt treatment of such infection can prevent an episode of rheumatic fever. Good environmental conditions, prevention of overcrowding, healthy hygienic care of children etc. can prevent the infection to a great extent. Even

if throat infection develops, if it can be taken care of immediately with simple antibiotic therapy, occurrence of rheumatic fever can be prevented. Once rheumatic fever has occurred, recurrences have to be prevented by regular periodic administration of antibiotics like penicillin (as such children are prone to recurrence of rheumatic fever). Vaccines to prevent development of the entity are also being evaluated. The fact that the incidence of rheumatic fever and rheumatic heart disease have come down drastically in Central Kerala is a proof for the concept that rheumatic fever is preventable.

The Media

India has a very active print and electronic media. The total number of newspapers and periodicals was 55,780 as on 31 March 2003.

Radio Broadcasting

Radio broadcasting began in India in the early 1920s. The first programme was broadcast in 1923 by the Radio Club of Bombay. This was followed by the setting up of a Broadcasting Service in 1927 on an experimental basis in Bombay and Calcutta. The government took over the transmitters and began operating them under the name Indian Broadcasting Service. It was changed to All India Radio in 1936.

All India Radio today has a network of 213 broadcasting centres covering 91.37% of the area and almost reaching the entire population of 100 crore. AIR broadcasts in 24 languages and

146 dialects. It has 149 medium wave frequency transmitters, 55 high Frequency Modulation (FM) transmitters.

Television

Television transmission began in India from a makeshift studio in the Akashvani Bhawan in New Delhi on 15th September 1959. A 500 watt transmitter carried the signal within a radius of 25 km. around Delhi. However, a regular service with a news bulletin became a reality only in 1965.

After seven years, the second television centre commenced service in Bombay. By 1975 TV service was available in Kolkata, Chennai, Srinagar, Amritsar and Lucknow. Colour transmission was introduced during the Asian Games held in New Delhi in 1982.

Top Dailies in India

Rank	Publication	Language	Circulation
1.	Dainik Jagran	Hindi	23,80,145
2.	Dainik Bhaskar	Hindi	19,42,525
3.	Malayala Manorama	Malayalam	13,95,191

Ananda Bazar Patrika	Bengali	12,38,965
Hindustan Times	English	12,35,319
The Hindu	English	11,81,500
Hindustan	Hindi	10,10,606
Eenadu	Telugu	10,50,659
Mathrubhumi	Malayalam	10,40,183
Rajasthan Patrika	Hindi	9,91,797

Weeklies

Malayala Manorama	Malayalam	7,98,194
Mangalam	Malayalam	4,71,938
Ananda Vikatan	Tamil	4,38,742
Balarama	Malayalam	2,95,527
Mathrubhumi Thozhilvartha	Malayalam	2,63,387

Fortnightlies & Monthlies

Saras Salil	Hindi	9,19,660
Vanitha	Malayalam	5,44,575
Grih Shobha	Hindi	3,61,798
Meri Saheli	Hindi	3,79,706
Grehlakshmi	Hindi	2,87,932

Annuals

Kalnimay	Marathi	52,02,635
Kalnimay	Hindi	6,24,839
Mallige Panchanga Darshini	Kannada	2,82,794
Manorama Yearbook	English	2,07,594
Sharadia Bartaman	Bengali	1,61,787

Audit Bureau of Circulations, July-Dec.2005.

Music and Dance

Music is one of the oldest and finest forms of human expression. Music can be divided into Western classical, Hindustani classical, Carnatic classical, Folk, Jazz, Pop, Fusion, etc. The main schools of classical music, Hindustani and the Carnatic, continue to survive through oral tradition being passed on by teachers to disciples. This has led to the existence of family traditions called gharanas and sampradayas.

A new form of Hindustani music known as Khayal emerged during the 13th & 14th cen-

turies. This style gave an entirely new dimension to Hindustani classical music tradition. Amir Khusro is considered the proponent of this style. Thyagaraja, Muthuswami Deekshithar and Shyama Shastri are popularly known as the trinity of Carnatic music.

The pivotal concept of Indian music (Carnatic and Hindustani) is Raga (melody). Ragas are made of different combinations of sapta (seven) swaras: Sa Sadjam; Ri Rishabam; Ga Gaandhaaram; Ma Madhyamam; Pa Panchamam; Dha Dhaivadam; Ni Nishadam.

In Western classical, piano one octave consists of twelve notes whereas in Indian music the same octave contains 22 (srutis) notes. The twenty two srutis are called Siddha, Prabhavati, Kantha, Suprabha, Shikha, Diptimati, Ugra, Hladi, Nirviri, Dira, Sarphara, Kshanti, Hridayonmulini, Visarini, Prasuna, Vibhuti, Malini, Chapala, Vala, Sarvaratna, Sitanaj and Vikalini.

Swara is generally defined as a note whereas sruti constitutes the macrotonal intervals between two swaras. The nuances of these can be best understood in prayoga (practice) rather than theory.

Taala is defined as rhythm. But in vocal music or instrumental music taala plays a creative and organic part in bringing out the essence and elevating the musical expressions to new dimensions. The major taalās are Aadi Taala, a cycle of eight maathras (beats), Chautal or Eaka Taal consisting of twelve maathras mostly played on the Pakhawaj, Jhaptal consisting of ten maathras, Roopak taala of seven maathras, and Teen Tala of sixteen maathras.

Violin is a widely accepted musical instrument of foreign origin which has an unavoidable presence in Indian classical music.

Some of the famous musicians

Ariyakudi Ramanuja Iyengar (1890-1967) • Maharajapuram Viswantha Iyer (1896-1970) • Papanasam Sivan (1890-1973) • Mysore Vasudevachariar (1865-1961) • Madurai Mani Iyer (1912-1968) • M.D. Ramathan (1923-1984) • Chemba Vaidyanatha Bhagavata (1896-1974) • Pt. Vishnu Digambar Paluskar (1872-1931) • Ustad Faiyaz Khan (1886-1956) • Pt. Omkarnath Thakur (1897-1967) • Ustad Bade Gulam Ali Khan (1903-1968) • Pt. Mallikarjun Mansur (1910-1992) • Kumar Gandharva (1924-1992).

Some of the famous instrumentalists

Sarod: Ali Akbar Khan, Allauddin Khan, Amjad Ali Khan, Buddhadev Desgupta,

Bahadur Khan, Sharan Rani, Zarin S. Sharma

Tabla: Alla Rakha Khan, Kishan Maharaj, Nikhil Ghosh, Zakir Hussain

Violin: Baluswamy Dikshitar, Gajanan Rao Joshi, Lalgudi G. Jayaraman, M.S. Gopalakrishnan, Mysore T. Chowdiah, T.N. Krishnan

Shehnai: Bismillah Khan

Sitar: Nikhil Banerjee, Ravi Shankar, Vilayat Khan, Hara Shankar Bhattacharya

Flute: Hari Prasad Chaurasia, Pannalal Ghose, T.R. Mahalingam

Veena: K.R. Kumaraswamy Iyer, Doraiswamy Iyengar.

Dances

Dance in India has an unbroken tradition of over 2000. Two main divisions of its forms are classical and folk. Classical dance forms are based on ancient dance discipline and have rigid rules of presentation. Important among them are Bharata Natyam, Kathakali, Kathak, Manipuri, Kuchipudi and Odissi.

Folk dances of India vary according to the region and have no specific grammar. They fit in with the scheme of festivals in each region.

Some of the famous dancers

Bharatanatyam: Bala Saraswati, C. V. Chandrasekhar, Leela Samson, Mrinalini Sarabhai, Padma Subramanyam, Rukmini Devi, Sanyukta Panigrahi, Sonal Mansingh, Yamini Krishnamurthi

Kathak: Bharati Gupta, Birju Maharaj, Damayanti Joshi, Durga Das, Gopi Krishna, Kumudini Lakhia, Sambhu Maharaj, Sitara Devi

Kuchipudi: Josyula Seetharamaiah, Vempathi Chinna Sathyam

Manipuri: Guru Bipin Sinha, Jhaveri Sisters, Nayana Jhaveri, Nirmala Mehta, Savita Mehta

Odissi: Debaprasad Das, Dharendra Nath Pattnaik, Indrani Rahman, Kelucharan Mahapatra, Priyambada Mohanty, Sonal Mansingh.

Education Problems and Solutions

U R Ananthamurthy

I have made a thorough survey into the issue of the closure of a large number of Government schools in Kerala. The former Chief Minister, Mr. A.K. Antony, had invited me to be chairman of a committee to study this issue. One of the things which the government thought was ailing the system was the closing down of a large number of government schools and these schools had protected teachers. The other notion was that there was a fall in population in Kerala and there were not as many children, as they were, to attend school. But I found this to be a wrong assumption. Most children attended private schools because they wanted English. Parents, who could afford it, sent their children to private schools.

I also found that most private schools were staffed by teachers who were not as good as government school teachers, who were not only far superior in their teaching methods, but also continued to receive further training. English, as a language, was taught in government schools only from standard V. Hence, parents were ready to sacrifice good education, which they were getting in government schools, for very poor education being imparted in many English-medium private schools.

One of my suggestions to the government of Kerala to put an end to this was to give students, in government primary schools, English from standard I. Children need not be taught to read or write English because English is a very irrational language as far as writing skills are concerned. If you learn the Malayalam alphabet, you can read

Malayalam. If you learn the English alphabet, you cannot learn English. Hence, I suggested that children be taught to speak English, not read/write the language. I even suggested that teachers use subjects like cricket to get children to speak the language. Let the teacher initiate some discussion in English on the game of cricket. Give everyone a feeling that English can be domesticated and used. Making all kinds of mistakes does not matter because it is just another language for standard I students. Middle class parents would then send their children to good government schools. I also found that there were a couple of government schools in Trivandrum, which were sought after by parents, because many officials sent their children to these schools and ensured that the schools were good. I presumed that if all our children went to the same kind of school, a neighbourhood school, parents would take some interest in improving the school.

Common School Legislation

Nothing will improve the schools until we bring in the Common School legislation. If it is difficult to legislate for a common school, we can do two or three things. One, give common schools English from Standard I so that children, particularly in Kerala where they need a language skill because they cannot get jobs in their home state, get access to the English language. However, we could teach all other subjects in Malayalam because the learning skills are quicker in one's own language. After a certain level, if children have to shift to English medium, they will shift eas-

ity, without any trauma. Now, there is a trauma in shifting to the English medium after class X or so. Another concrete suggestion, which would find acceptance among middle class parents, is to ensure that in all English medium schools, one of the subjects should be taught in the mother tongue. I say this because boys and girls are now divided into classes—poor vs rich, underprivileged vs privileged. Let's not do that. Even privileged children, who attend English medium schools, should learn at least one subject in their own language. I suggested Humanities or Social Sciences because the only concern of most parents is that their children ultimately enter the IITs or medical colleges! So, they want only Science and Mathematics in English. This is a compromise. I am not saying that it is an ideal solution, but we can not remove English medium schools as the minorities have a right to start their schools. However, we can at least ensure that children's skills in Humanities are developed in their mother tongue.

There is a central legislation contemplated that children should not have to travel a long distance to attend school. It is a legislation that all private schools have a certain percentage of students from the neighbourhood. These children should be enrolled automatically and not through "interviews" because interviews for such young children are meaningless and every child has the right to education. As for the fees, because many parents may not be able to afford private school fees, the government should give private schools whatever money they had earmarked for these children in their own schools.

Concepts such as teacher training will not work unless parents take an active interest and have a stake in their children's schooling. Parents will take an interest only when those who have a stake in education send their children to government schools.

There is some corruption also in the appointment of teachers. I have heard from

teachers of aided schools in Kerala, where the salary is paid by the government but where teachers are selected by private school managements, that they had to pay between Rs.5-10 lakh to get a post. So I proposed, in my recommendations which are still pending before the government, that all teachers be selected through Public Service Commission. The managements of private schools should be allowed to choose teachers from this selected list. We hope, then, that there would not be much corruption.

If possible, a few other legislations can be made if there is a will. A teacher should be appointed to a particular school. This will ensure that teachers are not transferred frequently. A school develops because of the commitment of teachers who stay there for a few years. Those who have a need for the job know that they have to stay on at the place of their posting. It is a commitment which they must make, willy-nilly. It does not mean that the school should become a prison for the teacher! The fact remains that certain schools in backward areas never get teachers. The appointed teachers use their political influence and get transferred to a cushy place.

Creation of Knowledge

We have a wrong notion of education. We believe that education is knowledge transfer from the teacher to the students. Hence, there is a lot of learning by heart. I found whether in Kerala, Karnataka or anywhere in India, memorizing is a skill which is very useful in music, in poetry, in theatre but utterly useless in Science! The mode of instruction should be creation of knowledge, rather than transference of knowledge. The teacher and the students should create knowledge, together. I know of an instance where a child was very bothered that he could not see the moon at all on a particular day of the month! If a child is so bothered about the moon's disappearance, then there is immense poten-

tial to teach astronomy to the child. We have to nurture a child's natural curiosity.

Even our President makes a mistake. He thinks that computers can help us. Not computers, but our fingers and our hands can help us. I would encourage a child to bring a broken radio to the classroom and take it apart further, before putting it together. We should create knowledge that stays with the child. This needs a different kind of approach where textbooks will disappear. What ails education everywhere is this business of textbooks. There is a lot of corruption involved in writing textbooks. So, bad textbooks are written. Children's education is postponed because textbooks are not ready, on time. We can do away with textbooks and instead have workbooks for the guidance of the teacher.

Many of the best schools, in Karnataka or Kerala, do not have a library. A library is not merely a place where you read/borrow books. There should be audio-visual equipment which the children can use to listen to music or play games. Audio-Visual equipment helps because at one time the ratio between the teacher and the pupils was good and strictly followed. Now, there are more pupils and few teachers. We can deal with the problem of lack of teachers in some schools, by using audio-visual equipment, wisely. Library hours must be shown in the time-table. Children should be able to pull out any book they want and read what they want. When schools choose their staff, the librarian must be seen as a very necessary person. What happens in most schools is that some teacher is given library work. This teacher uses the library only in his/her free time.

Today, a school is detached from its surroundings. This was not so in the past. Villagers went to a school teacher with their everyday problems. A village school teacher would read/write their letters. A teacher, in the past, was a part of the community. To improve school education in India, the first thing we should do is stop blaming teachers.

Blaming the teachers has become a good excuse for us not to do many things. We should make use of local resource people. If there is a good story teller in a taluka/village, make her a visiting teacher. She may not have any degree. She may even be non-literate, but it does not matter. One of the skills, fast disappearing in our school system, is the capacity to tell stories. Children don't know how to tell stories. Story-telling, music and theatre should be important components of the school curriculum. To develop cultural skills in children, we should use people in the community such as good singers, talented theatre people and gifted story-tellers.

There is a problem in every school when we evaluate a student. Students are usually marked on their mathematical and memorisation skills. First class or Second class is meaningless as far as the child's ability to learn is concerned. There is a subtle thing that can be done to change this. Sometimes, I find that the most mischievous student, who may not do well in English/Mathematics/Science, is the one who can dance; who can perform many tricks and who is a very good mimic. If cultural skills are made a part of the curriculum-extra curricular and co-curricular are very wrong words to use, please drop these words—it helps to draw the overall portrait of the child.

'Maths, a Birthright'

Regarding Mathematics, which is often considered a bugbear, we should adopt the slogan 'Mathematics is the birthright of every child.' As a teacher, do not assume that Mathematics is only for the skilled ones.

I also want the SSLC exams to be removed. Quite a few unnecessary deaths happen because of class X board exams. There should be a rule that students who are in class X will go to class XI. But if a student wishes to leave his/her present school to join another school, then there can be an exam for such students where they are graded, not marked. We can

make many innovations. To overcome the weaknesses of many schools, we can make "clusters" of schools. A school cluster could help in the evaluation of teaching methods and improvement of teachers' skills. Evaluation is not an ultimate judgement to be passed on the student. Instead, it is part of the creative process of teaching and learning.

The Right to Education should apply till class XII. There should be a long period to develop children's skills. In class XI and XII, if art has been made part of the curriculum, some extraordinarily gifted children should be able to opt for cultural subjects. I had some experience of this when I was in Kerala. The parents of a boy called Shankaran Namboodiri, now a very famous vocalist, came to me and said their son was short of attendance and would not be able to take his exams. I told them the whole idea was silly! I believed that Shankaran Namboodiri had as much of a right to take the exam as much as he had to create music. Why should we think that what he is doing—creating music—is meaningless and a waste? We should change the whole idea of education so that all skills are accounted for.

These are some measures which can succeed only if we have faith in the Common Schools where children of various capacities and abilities learn together. It is a challenge for teachers to devise methods by which they can cater to slow learners and fast learners.

More than any other state in India, I think Kerala is at the take-off point. It has achieved full literacy. In the Muslim districts, where I had some of my best meetings, people were very eager that their children received regular, mainstream education. They wanted their daughters to attend school. So far as people's attitudes were concerned, there was no problem at all. The Muslims were very eager for mainstream education although they wanted their 'madrasas'. They were willing to make adjustments between the 'madrasas' and the mainstream school. When you have that

kind of willingness of the people, then there is no real problem.

The problem is with us. In our desire to maintain a certain kind of class system in having different kinds of schools, we do not pay enough attention to common schools. There is a lot for every child to learn from another child, in a common school. We should treat children as equal; as capable of any learning. Assumptions that children from affluent families are better than children from low income families are not well tested. There may be other psychological factors that make children, from low income families, slow learners. It is the responsibility of the school to overcome such problems. Then, there will be fewer drop-outs.

Children Belong to Society

Children belong to the whole society and not merely to their parents. A child cannot be abused. Making a child travel in a bus for 2 hours to reach school is an abuse. We should stop this. Neighbourhood schools are a good solution in a country like India where there is such a variety of people, castes and classes. If one has to have the sense of being an Indian citizen at the end, you need 'mixing' in schools.

I have talked to great creative people in Kerala like Adoor Gopalakrishnan and M T Vasudevan Nair and they agree with me that what made them creative is partly the fact that they went to a common school. I came from a very orthodox family. In my village, I used to wear a shirt to school and an 'angavastram' at home. I would hang my shirt on a nail when I entered the house. I believe and I say that I became a writer because of the shirt I wore, but not because of the 'angavastram'. The shirt I wore brought me in touch with children from other castes. It was another world altogether compared to my world at home. This is not happening now.

The kind of world, which children are exposed to at school, especially at the present, is a replica of their world at home. They meet

who have the same toys and tools. This damages the learning process. It is also about learning how to live in a poor country like India. The poor have great survival skills and our rich children come to know these skills. If our children are not street-wise, it means there is something lacking in their education.

Unfortunately, there is a lobby against Central Schools; a very strong lobby of private schools, especially in Kerala. To empower Central Schools, we should teach sports and English. Everyone sees that those who speak English get everything done, relatively easily. When I recommended this, there was an attempt to make it seem as if I were speak-

ing for English. It is not so. The Indian languages have always had to struggle—first with Sanskrit, now with English. Children need access to whatever is power today. We may criticize it, but the fact remains that knowing English is power today. But we must be conscious of the kind of English we wish to promote. English today is not a gateway to knowledge as it used to be in our times. Today, it's a language of the market forces. We must be aware of the dangers of this.

Our ideal should be Central Schools. In India, the Central Schools, with all their faults, have a certain achievement which every government school should aim at.

(As told to Kavitha Srinivas)

Town Planning

Jacob Easow, Engineer-Planner

Senior Town Planner, Department of Town and Country Planning, Kerala

city, throughout the developing world. In a sense, the sign and the success of the development process. Its success reflects the validity of Town Planning principles and theories. Its failure and the resulting frustration, functional chaos, environmental degradation, unemployment and poverty, hunger and distress, bankruptcy, etc. point to the mess and contradiction of the whole system.

Unfashionable these days in the development world to condemn urbanisation as a costly and undesirable phenomenon, and urbanisation as a menace. The large city is indeed considered as the symbol of the relative failure of urban planning. Urbanisation is inevitable when pressure on land is high, agricultural income is low, and population increase is massive. Even where rural jobs are avail-

able, drift to cities occurs, as it offers a promise of economic opportunity and social mobility. It should be recognized that urbanization is not a calamity but a necessity. Urbanisation is a positive force and urban growth is an impetus to development. Both accelerate industrialization to some extent, they permit change in the social structure by raising the level of human aspiration, facilitate the provision of public services to a large sector of the population, and make possible increased economic opportunities and improve living conditions for those people who remain in the rural areas.

The positive role of urbanisation can be materialized only if the cities are economically viable and capable of generating economic growth in a sustained manner. Urban and Regional Planning should be given due

consideration for building our cities / settlements as vibrant centres.

The Plan

In order to translate long-range goals and short-term objectives for the orderly development of a planning area, a tool (with technical guide lines and legal backing) is used by the town planner and this tool is known as 'Plan'. This Plan is a guideline or blueprint for the future development of the area. These Plans are known variously as 'Master Plan', 'Development Plan', 'Comprehensive Development Plan', 'General Plans', 'Structure Plan' etc, depending on the type of planning approaches and concepts. Plans are prepared in various hierarchies like region, city/town/village, and local.

Urban and Regional Planning process is a research-oriented exercise. It comprises two principles namely, theory in planning and theory of planning, former means the concepts taken from other disciplines and latter the concepts derived or arrived from the analysis of an existing settlement.

Ideals of Planning

Garden City Concept: This concept was defined in 1919 by the Garden City Association in agreement with Ebenezer Howard, the Father of the Garden City: "A Garden City is a Town designed for healthy living and industry; of a size that makes possible a full measure of social life but not larger; surrounded by a rural belt; the whole of the land being in public ownership or held in trust for the community". It is not a colony, but a complete working city for a population of 30,000 and more with a large central park containing public buildings surrounded by a shopping street. The central park and shopping street are surrounded by dwellings in all directions at a low density. The outer circle of factories and industries and the whole is surrounded by a permanent green belt.

La Ville Contemporaine (Concentric City): The City of Tomorrow for 3,00,000 people was proposed by Le Corbusier in 1922. This scheme was a city of magnificent sky scraper towers surrounded by broad and sweeping open space. Sixty-storey office buildings accommodating 1,200 people per acre and covering only 5% of the ground area were grouped in the heart of the city. The hub of the transportation centre consists of motor and rail lines, the roof of which is the airfield. Surrounding the skyscrapers was the apartment district, eight-story buildings arranged in zig-zag rows with broad open spaces. Outskirts were laid with the garden cities of single family houses. The residential zones contain schools, shopping centres, and recreational facilities.

Neighborhood Concept: Lewis Mumford in the book '*The Culture of Cities*' (1938) advocated 'Neighborhood Unit Concept'. Usually a neighborhood unit is defined based on a set of social relationships. The physical size is determined by the convenient walking distance for children between the farthest house and the school and playground in which a major part of their activities are focused.

Masterpieces from India

Jaipur: The city of Jaipur, the *Pink City*, can be described as a good example of a planned city. The city was built in 1753 on a carefully prepared plan, broad avenues and public buildings. Sawai Ramsingh gave the city its universal pink colour. Jaipur has originally well laid roads with geometric precision and arithmetic accuracy, systematically open squares and fountains.

New Delhi: The capital of India was planned in 1911 by Sir Edward Lutyens and Sir Herbert Baker from England. It is laid out in the Versailles style of Renaissance.

Chandigarh: Chandigarh may be said to have started a new movement in the plan-

ning of towns and public buildings in India. The famous architect-planner of French origin Le Corbusier in collaboration with Maxwell Fry and Jane Drew of England and P.L Varma, chief engineer of the state prepared the master plan of Chandigarh. The city is planned for a population of 500,000 and conceived as a human body. Thus placed the Secretariat building and the Legislature Complex, being the head and the brain of the city, at the top (northern end). Industries were placed at the southern end, to give a strong footing or base to the city, as the legs do. The city-centre being the heart was placed at the centre. The entire communication system was conceived as arteries and blood vessels, to interconnect the various parts of the city and to facilitate the smooth flow of men and materials.

Recent Trends

Sustainable Development Approach

Since the presentation of the Brundtland Commission's report *Our Common Future* in (WCED, 1987), the term 'sustainable habitat' (sustainable urban development) has been increasingly used by Urban Planners. Different physical solutions have been launched as models for a sustainable city/ habitat. Also, different procedures have been recommended to lead current town plan and development on to a more sustainable course.

Several dimensions of physical form and spatial structure are discussed in the light of the main criteria of a sustainable development. If a sustainable development is to be achieved, it is necessary to avoid further urban sprawl. Low density, dispersed cities can hardly be energy efficient. Therefore a strategy for more compact cities was proposed with long-term and global goals. The Plan in this approach is termed as sustainable development plans.

Smart Growth and New Urbanism

Perhaps the most valuable tool in the Smart

Growth toolkit is New Urbanism. While Smart Growth principles support higher density, mixed-use, walkable environments, New Urbanism is proving to be the most successful method for making these Smart Growth goals achievable. New Urbanism is an urban design movement that aims to reform urban planning and real estate development toward building more human-scaled and walkable communities. It is a reaction against the predominant development pattern of the mid-to late-20th century—low-density, generic development types that are separated by use and tied together by roadways and parking lots. New Urbanism is strongly influenced by the traditional urban patterns that dominated up to the 1920s, although it modifies these patterns to address the contemporary realities of the demand for larger homes, the greater use of automobiles and large scale retail formats. It reforms the design of built environment, and is about raising the quality of life and standard of living by creating a better place to live. New Urbanism is the revival of our lost art of place-make-up and is essentially a reordering of the built environment into the form of complete cities, towns, villages and neighborhoods. New Urbanism implies fixing and infilling cities, as well as the creation of compact new towns and villages. The principles of New Urbanism are

Walkability—Most things within a 10 minute walk of home and work

Connectivity—Pedestrian network

Mixed-use and diversity

Mixed housing

Quality architecture and urban design

Traditional neighborhood structure

Smart Transportation—A network of high-quality train

Sustainability—Minimal environmental impact, Eco-friendly technologies, Energy efficiency, more local production more walking, less driving

Quality of Life. Enrich, uplift and inspire the human spirits.

Participatory Spatial Planning

Enactment of constitution 73rd and 74th Amendment Act in 1992 was the major event in democratic decentralization in India. The state of Kerala, well known for imparting education, healthcare, public distribution system, etc down to grass-root level, has been a pioneer on decentralized planning also. In 1996, a new planning process was introduced in Kerala through the launching of people's campaign for decentralized planning, popularly known in Malayalam as '*Janakeeyasoothranam*'. People's planning campaign was successful in terms of both participation as well as allocation of funds but lacked scientific skill of development planning such as spatial planning techniques and use of modern technologies. Such an innovative experiment for the preparation of development plans is now being implemented as a pilot project in Kollam District of Kerala State. The basic concept was designed in 2003 by the Department of Town Country Planning, Kerala.

In this concept two level plans are prepared simultaneously- one at the lowest tier of local government (Panchayat / Municipalities) i.e. Local Development Plan (LDP); and other for the District as a whole, an Integrated District Development Plan (IDDP). Here, the direct participation of people is ensured through village/ward sabhas and various working groups ensure the balanced involvement of elected representatives, government departments, NGOs, stakeholders, etc. This is the uniqueness of this participatory town planning process. Unlike other spatial plans prepared in this country, specialty of IDDP and LDP is that the sectoral policies of various development agencies of the planning area are translated to spatial plans. The concept of the planning process based on a combination of top-down and grass-root-up approach is a good example for multi-level planning. Thus 100 percent planning of the district, both in regional level (IDDP) and settlement level (87 LDPs), for Kollam is expected to complete by the end of 2006, which will become a model for other districts of India. ■

Planning of Early Towns

Ur-Babylon, Khafage and Eshnunna are good examples of oldest organized settlements in Euphrates and Tigris river basins. Description by Herodotus on Ur-Babylon says that it extends to an area of 1400 acres with a population of 2000 in a square pattern 120 furlong each way. Roads are all straight and in grids with bronze gates at entry. A river cuts the city into two but is surrounded by a great wall. Another great wall encircles the city centre. Royal Palace and ziggurat (Temple), located face to face on the bank of the river is surrounded by a wall. Ziggurat is one furlong square built with clay bricks and having eight storeys. Primary communica-

tion of town is by water.

In the Indian Sub-continent, towns like Mohanjodaro and Harappa of the Indus Valley civilization are the most important. Carbon test of the excavation reveals the approximate period of the civilization as 3000 BC or earlier. Historians claim that the identifiably independent culture at Mohanjodaro and Harappa was marked by developments of wheels, use of metals, knowledge of arithmetics, use of coinage, art of expression and representation, and architecture and planning techniques. Both towns are located along the trade routes of the Indus River.

Ready Reckoner: States

State/UTS	Capital	Governors	Chief Ministers
Andhra Pradesh	Hyderabad	Rameshwar Thakur	Dr. Y.S. Rajasekhara Reddy
Assam	Dispur	Shilendra Kumar Singh	Gegong Apang
Bihar	Patna	Lt. Gen. (Retd.) Ajai Singh	Tarun Kumar Gogoi
Chhattisgarh	Raipur	R.S. Gavai	Nitish Kumar
Goa	Panaji	Lt. Gen. (Retd.) K.M. Seth	Dr. Raman Singh
Gujarat	Gandhinagar	S.C. Jamir	Pratapsingh Raoji Rane
Haryana	Chandigarh	Nawal Kishore Sharma	Narendra Modi
Himachal Pradesh	Shimla	Dr. A.R. Kidwai	Bhupinder Singh Hooda
Jammu & Kashmir	Srinagar (Summer) Jammu (Winter)	Just. Vishnu Sadashiv Kokije (Retd.) Lt. Gen. (Retd.) S.K. Sinha	Virbhadra Singh Ghulam Nabi Azad
Jharkhand	Ranchi	Syed Sibtey Razi	Madhu Koda
Karnataka	Bangalore	T.N. Chaturvedi	H. D. Kumaraswamy
Kerala	Thiruvananthapuram	R.L. Bhatia	V. S. Achutanandan
Madhya Pradesh	Bhopal	Balram Jakhar	Shivraj Singh Chauhan
Maharashtra	Mumbai	S.M. Krishna	Vilasrao Deshmukh
Manipur	Imphal	Dr. Shivinder Singh Sidhu	Okram Ibobi Singh
Meghalaya	Shillong	M.M. Jacob	J. D. Rymbai
Mizoram	Aizawal	Lt. Gen. (Retd.) M.M. Lakhera	Zoramthanga
Nagaland	Kohima	Shyamal Datta	Neiphiu Rio
Nissa	Bhubaneswar	Rameshwar Thakur	Naveen Patnaik
Nijaba	Chandigarh	Gen (Retd.) S.F. Rodrigues	Captain Amarinder Singh
asthan	Jaipur	Smt. Pratibha Paul	Smt. Vasundhara Raje
ikim	Gangtok	V. Rama Rao	Pawan Chamling
mil Nadu	Chennai	Surjit Singh Barnala	M. Karunanidhi
apura	Agartala	Dinesh Nandan Sahaya	Manik Sarkar
tar Pradesh	Lucknow	T.V. Rajeswar	Mulayam Singh Yadav
taranchal	Dehradun	Sudershan Agarwal	Naran Dutt Tiwari
est Bengal	Kolkata	Gopal Krishna Gandhi	Buddhadev Bhattacharya

National Capital Territories

National Capital Territory	Capital	Lt. Governor	Chief Minister
Delhi	Delhi	B.L. Joshi	Smt. Jyoti Sengar

Union Territories

State/UTS	Capital	Lt. Governors/Administrator	Chief Minister
Daman & Nicobar	Port Blair	Lt. Gen. (Retd.) M.M. Lakhera	-
Chandigarh	Chandigarh	Gen. (Retd.) S.F. Rodrigues / Administrator	-
Andhra & N Haveli	Silvassa	Rajnikant Verma / Administrator	-
Daman & Diu	Daman	Rajnikant Verma / Administrator	-
Andhra & N Haveli	Kavaratti	Rajendra Kumar / Administrator	-
Andhra & N Haveli	Pondicherry	Mukut Mohan	-

States of India

India, for administrative purposes, is divided into the national capital territory of Delhi, 28 states, and 6 centrally administered union territories.

States: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttaranchal, Uttar Pradesh, West Bengal.

Union Territories: Andaman and Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Lakshadweep, Pondicherry.

National capital territory: Delhi

Top 10 States of India - populationwise

Rank	State/UT	Population in 2001
1.	Uttar Pradesh	166,052,859
2.	Maharashtra	96,752,247
3.	Bihar	82,878,796
4.	West Bengal	80,221,171
5.	Andhra Pradesh	75,727,541
6.	Tamil Nadu	62,110,839
7.	Madhya Pradesh	60,385,118
8.	Rajasthan	56,473,122
9.	Karnataka	52,733,958
10.	Gujarat	50,596,992

UTs

1.	Pondicherry	973,829
2.	Chandigarh	900,914
3.	Andaman and Nicobar Islands	356,265
4.	Dadra and Nagar Haveli	220,451
5.	Daman and Diu	158,059

States of India - areawise

Rank	State/UT	Size (Area in Sq. km.)
1.	Rajasthan	342,236
2.	Madhya Pradesh	308,144
3.	Maharashtra	307,713
4.	Andhra Pradesh	275,068
5.	Uttar Pradesh	238,566
6.	Jammu and Kashmir	222,236
7.	Gujarat	196,024
8.	Karnataka	191,791
9.	Orissa	155,707
10.	Chhattisgarh	135,194

UTs

1.	Andaman and Nicobar Islands	8,245
2.	Delhi	1,483
3.	Puducherry	493
4.	Dadra and Nagar Haveli	49
5.	Chandigarh	14

Beginning of States & UTs

The period between 1947 and 1950 witnessed the consolidation of the former princely states into new provinces, usually governed by a Rajpramukh, (Governor) appointed by the Governor-General of India. In 1950, the Indian constitution took effect, the office of the Governor-General was abolished, and India created several different categories of states.

Part A states, which were the former provinces, were ruled by an elected governor and state legislature. The Part A states (nine) Assam, West Bengal, Bihar, Bombay, Madhya Pradesh (formerly Central Provinces and Berar), Madras, Orissa, Punjab, Uttaranchal, and Uttar Pradesh (formerly United Provinces).

The Part B states (eight) were former princely states or groups of princely states, go

by a Rajpramukh. They were Hyderabad, Maharashtra, Mysore, Travancore-Cochin, Madhya Bharat, Vindhya Pradesh, Patiala and East Punjab States Union (PEPSU), and Rajasthan.

The Part C states (ten) included both former princely states and provinces. They were governed by a chief commissioner. The Part C states included Delhi, Kutch, Himachal Pradesh, Bilaspur, Coorg, Bhopal, Manipur, Ajmer, and Tripura.

J&K had special status until 1957. The Andaman and Nicobar Islands was a territory, ruled by a governor appointed by the Indian president.

The French enclaves of Pondicherry, Yanam, Karaikal, and Mahe, were administered by India after 1954, formally becoming a Union Territory in 1962. Dadra and Nagar Haveli was occupied by India in 1954, and Goa, Daman, and Diu in 1961, and they subsequently became UTs.

In 1953, the Telugu-speaking portion of Madras state voted to become the new state of Andhra Pradesh, the first of India's linguistic states.

In 1956, when the States Reorganisation Act took effect, the distinction between part A, B, and C states was gone, and instead state boundaries were drawn along linguistic lines. The new states, mostly the former Part A states, were Assam, West Bengal, Bihar, Maharashtra, Gujarat, Kerala, MP, Madras, Mysore, Orissa, Punjab, Rajasthan, and UP. Delhi, Himachal Pradesh, Manipur, Tripura, Pondicherry, the Andaman and Nicobar Islands, and the Laccadive, Minicoy, and Amindivi Islands became Union Territories. The remainder of the states were merged into the new states or UTs.

Several new states and UTs were created out of existing states since 1956. Haryana was created in 1966 out of Punjab. The UTs of Arunachal Pradesh, Meghalaya, Mizoram, and Nagaland were created out of Assam. In 2000, 3 new states were created; Jharkhand was created out of Bihar, Chhattisgarh out of MP,

Facts about India

• Standard time: 82°30' E • Most Populous District: Medinipur • Least Populous District: Yanam • Most Literate District: Aizawl • Largest State (areawise): Rajasthan • Smallest State: Goa • Most Populous State: UP • Least Populous State: Sikkim • Southernmost point: Indira Point • Max. N-S distance: 3,214 km • Max. E-W distance: 2,933 km • Golden Quadrilateral connecting 4 metros: distance: 5846 km • Major Ports on coastline: 12 : (181 others).

and Uttaranchal out of UP. The Kingdom of Sikkim was annexed to India as a state in 1975. In addition, several Union Territories have become states, namely Goa, Arunachal Pradesh, Meghalaya, Mizoram, and Nagaland.

Before 1947

The British India, was made up of two types of states, the Provinces and the Princely states. Provinces were ruled directly by British officials, either a governor or a chief commissioner, who were appointed by the Viceroy. Princely states were ruled by local, hereditary rulers, who acknowledged British sovereignty in return for local autonomy. British India had 15 provinces: Ajmer-Merwara, Assam, Baluchistan, Bengal, Bihar, Bombay, Central Provinces and Berar, Coorg, Delhi, Madras, Northwest Frontier, Orissa, Punjab, Sind, and United Provinces. British India had hundreds of princely states, which differed in size, and with wide variation in population. Most of the princely states were under the authority of a British political agent responsible to the governor of a province, but the four largest princely states, Hyderabad, Baroda, Mysore, and Jammu and Kashmir, were directly under the authority of the Governor-General of India. The Portuguese and the French had territories in India: Portuguese occupied Goa, Daman and

Rank of States (Categorywise)

Rank	Population	Area	Density	Literacy	SC	ST
1	UP	Rajasthan	Delhi	Kerala	UP	MP
2	Maharashtra	MP	Chandigarh	Mizoram	WB	Maharashtra
3	Bihar	Maharashtra	Puducherry	Lakshadweep	Bihar	Orissa
4	WB	AP	Lakshadweep	Goa	AP	Gujarat
5	AP	UP	Daman & Diu	Chandigarh	TN	Rajasthan
6	TN	J&K	WB	Delhi	Maharashtra	Jharkhand
7	MP	Gujarat	Bihar	A&N Is.	Rajasthan	Chhattisgarh
8	Rajasthan	Karnataka	Kerala	Puducherry	MP	AP
9	Karnataka	Orissa	UP	Daman & Diu	Karnataka	WB
10	Gujarat	Chhattisgarh	Punjab	Maharashtra	Punjab	Karnataka
11	Orissa	Tamil Nadu	TN	HP	Orissa	Assam
12	Kerala	Bihar	Haryana	TN	Haryana	Meghalaya
13	Jharkhand	West Bengal	D&NH	Tripura	Gujarat	Nagaland
14	Assam	Arunachal	Goa	Uttaranchal	Jharkhand	J&K
15	Punjab	Jharkhand	Assam	Manipur	Kerala	Tripura
16	Haryana	Assam	Jharkhand	Punjab	Chhattisgarh	Mizoram
17	Chhattisgarh	HP	Maharashtra	Gujarat	Delhi	Bihar
18	Delhi	Uttaranchal	Tripura	Sikkim	Assam	Manipur
19	J&K	Punjab	AP	WB	Uttaranchal	Arunachal
20	Uttaranchal	Haryana	Karnataka	Haryana	HP	TN
21	HP	Kerala	Gujarat	Karnataka	J&K	Kerala
22	Tripura	Meghalaya	Orissa	Nagaland	Tripura	Uttaranchal
23	Meghalaya	Manipur	MP	Chhattisgarh	Chandigarh	HP
24	Manipur	Mizoram	Rajasthan	MP	Puducherry	D&NH
25	Nagaland	Nagaland	Uttaranchal	Assam	Manipur	Sikkim
26	Goa	Tripura	Chhattisgarh	Orissa	Sikkim	UP
27	Arunachal	A&N Is.	Nagaland	Meghalaya	Goa	Lakshadweep
28	Puducherry	Sikkim	HP	AP	Meghalaya	A&N Is.
29	Chandigarh	Goa	Manipur	Rajasthan	Arunachal	Daman & Diu
30	Mizoram	Delhi	Meghalaya	D&NH	Daman & Diu	Goa
31	Sikkim	Puducherry	J&K	UP	D&NH	Punjab
32	A&N Is.	D&NH	Sikkim	J&K	Nagaland	Chandigarh
33	D&NH	Chandigarh	A&N Is.	Arunachal	Mizoram	Haryana
34	Daman & Diu	Daman & Diu	Mizoram	Jharkhand	Lakshadweep	Delhi
35	Lakshadweep	Lakshadweep	Arunachal	Bihar	A&N Is.	Puducherry

Diu, and Dadra and Nagar Haveli, while French had 5 enclaves - Chandernagore, Yanam, Pondicherry, Karaikal, and Mahe.

India and Pakistan, in 1947, divided its provinces and princely states along religious lines. Hyderabad's Muslim ruler tried to re-

main independent, but the intervention of Indian army made Hyderabad a part of India and Pakistan contested for control of princely state of J&K because the Muslim majority, but its Hindu ruler wanted to join India.

Andhra Pradesh

Date of Formation: 1 Oct. 1953 Andhra Part A state created from part of Madras; 1 Nov. 1956 Andhra Pradesh State.

Area: 2,75,069 sq. km.

Capital: Hyderabad

Neighbouring States/UT: Maharashtra, Chhattisgarh, Orissa, Karnataka, Tamil Nadu, Yanam (Pondicherry),

Population: 7,210,007; Males: 38,527,413; Females: 37,682,594; (a) Population Density: (persons per sq. km.): 277 (b) Sex Ratio: (Females per 1000 Males): 978

Literacy: (per cent): 60.5; Males: 70.3; Females: 50.4.

No. of Districts: 23

District	Area (sq km)	Population (2001)	Head-quarters
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Rayalaseema Region

Anantapur	19,130	36,39,304	Anantapur
Chittoor	15,152	37,37,437	Chittoor
Cuddapah	15,359	25,92,048	Cuddapah
Kurnool	17,658	35,24,073	Kurnool

Andhra Region

E. Godavari	10,807	48,97,777	Kakinada
Guntur	11,391	44,55,445	Guntur
Krishna	8,734	41,81,071	Modakurthy
Nellore	13,076	26,65,009	Nellore
Prakasam	17,626	30,54,921	Ongole
Srikakulam	5,837	25,31,752	Srikakulam
Visakhapatnam	11,161	38,16,820	V. Patnam
Vizianagaram	6,539	22,43,354	Vizianagaram
W. Godavari	7,742	37,99,213	Eluru

Telangana Region

Adilabad	16,128	24,89,312	Adilabad
Hyderabad	217	38,26,094	Hyderabad
Karimnagar	11,823	35,00,876	Karimnagar
Khammam	16,029	25,69,158	Khammam
Mahabubnagar	18,432	35,09,182	Mahabubnagar
Medak	9,699	26,63,783	Sangareddy
Nalgonda	14,240	32,45,400	Nalgonda
Nizamabad	7,956	23,39,459	Nizamabad
Ranga Reddy	7,493	35,87,891	Hyderabad
Warrangal	12,846	32,41,864	Warrangal

Villages: 28123; **Towns:** 210

Governor: Rameshwar Thakur

CM: Dr. Y.S. Rajasekhara Reddy

Legislative Bodies: State Legislature: Unicameral - Seats: 294 (Reserved: SC-39, ST-15); Lok Sabha Seats: 42; Rajya Sabha Seats: 18 [The Parliamentary Standing Committee on Law and Justice has recommended reinstituting Legislative Council under Art. 169. It was abolished in 1985.]

Main Political Parties: Indian National Congress, Telugu Desam Party, Telangana Rashtra Samithi, Communist Party of India (Marxist), Communist Party of India, All India Majlis-E-Ittehadul Muslimeen, Bharatiya Janata Party, Bahujan Samaj Party, Samajwadi Party

Seat of High Court: Hyderabad [Kurnool was the first capital of the Andhra state with the high court established at Guntur]

Chief Languages: Telugu and Urdu

Major Religions: Hinduism, Islam, Christianity

Main Towns: Hyderabad, Secunderabad, Karimnagar, Sirpur, Visakhapatnam, Vijaya wada, Cuddapah, Kakinada, Anantapur, Adilabad, Warangal, Nellore, Rajahmundry

Geography: (a) Rivers: Godavari, Krishna, Chitravati, Papagni, Musi, Pranrita, Vainyanga, Banda, Tungabhadra (b) Mountains: (Mt. Range- Eastern Ghat), Nalamala Hills, Satmala Hills, Erramala Hills, Horsley Hills, Palikonda Range, Velikonda Range; (c) Plateau: Telangana, Golconda, Rayalaseema, Srisaifam, Nalgonda, Warangal, Khammam; (d) Lake: Pulicat, Kolleru, Nagarjuna Sagar, Nizam Sagar. (e) Forest: 63,000 sq. km.

Economy: (a) Minerals: Chrysolite asbestos, barytes, copper ore, manganese, mica, coal and limestone. (b) Industries: machine tools, synthetic drugs, pharmaceuticals, heavy electrical machinery, fertilizers, cement, electronic equipment, watches, chemicals, asbestos, glass, etc.; (c) Agricultural Products: jowar, bajra, maize, ragi, sorghum, castor, tobacco, cotton, and products are cashew, eucalyptus

Transport & C

Length: National h

n., and State highways cover 60,453 km. There are 103,814 km of panchayati roads; (b) Railway Length: Railway routes cover 5,085 km; (c) Main Railway Stations: Hyderabad, Secunderabad, Guntakal, Warangal, Renigunta, Vijayawada, Visakhapatnam; (d) Airports: Hyderabad, Tirupati, and Visakhapatnam; (e) Ports: Visakhapatnam, Kakinada, Machilipatnam, Bheemunipatnam, Krishnapatnam, Vadarevu and Kalingapatnam.

Employment: ('99-00)- 30,614,000; Unemployment: ('99-00)- 8.03%.

Education: (a) Schools: 91453; (b) Colleges: 1536; (c) Universities: 28.

Religious Places: Tirupati in Chittoor district is famous for Venkateswara temple situated on the hilltop Tirumalai; the temple of Sriramachandra, Bhadrachalam; the Mallikarjuna Swami temple, Srisailem; the Mahabala temple, Sri Kurumam temple and the Mahalingeswara temple are other famous temples. Prashanthi Nilayam at Puttaparthi, is the abode of Sri Satya Sai Baba. Lepakshi, Mahastupa (Amaravati), Mecca Masjid, the largest mosque in south India, are the other attractions.

Culture: (a) Dances: Kuchipudi; (b) Festivals: Samkranti - Jan (Harvest festival); Visakhapatnam; Shivratri - Feb/Mar; Ugadi - Mar (Telugu New Year); Mahakali Yatra and Mrigasirajum - Jul; State Formation Day - 1 Nov. Industrial Exhibition - Jan/Feb.

Arunachal Pradesh

Date of Formation: 20 Feb 1987 State; 1 Jun 1972 Union territory created from part of Assam.

Area: 83,743 sq km

Capital: Itanagar

Neighbouring States/Countries: Assam, Nagaland, (countries) Bhutan, Myanmar, China.

Population: 1,097,968; Males: 579,941;

Females: 518,027; (a) Population Density: 13; (b) Sex Ratio: 901

Literacy: 54.3; Males: 63.8; Females: 43.5.

No. of Districts: 13

District	Area (sq km)	Population (2001)	Headquarters
Changlang	4,662	1,24,994	Changlang
Dibang Valley	13,029	57,543	Anini
East Kameng	4,134	57,065	Seppa
East Siang	4,005	87,430	Pasighat
Kurung Kumey	—	—	Laying- Yangte
Lohit	11,402	1,43,478	Tezu
Lower Subansiri	10,135	97,614	Ziro
Papum Pare	2,875	121,750	Itanagar (Yupia)
Tawang	2,172	34,705	Tawang
Tirap	2,362	1,00,227	Khonsa
Upper Siang	6,188	33,146	Yingkiong
Upper Subansiri	7,032	54,995	Daporijo
West Kameng	7,422	74,595	Bomdila
West Siang	8,325	1,03,575	Along

Villages: 4,065; **Towns:** 17

Governor: Shilendra Kumar Singh

CM: Gegong Apang.

Legislative Bodies: State Legislature: Unicameral - Seats: 60 (59 seats reserved for ST); Lok Sabha Seats: 2; Rajya Sabha Seats: 1
Main Political Parties: Indian National Congress, Bharatiya Janata Party, Nationalist Congress Party, Arunachal Congress...

Seat of High Court: Guwahati

Chief Languages: Monpa, Miji, Aka, Sherdukpen, Nyishi, Apatani, Tagin, Hill Miri, Adi, Digaru Mismi, Idu-Mishmi, Khamti, Miju-Mishmi, Nocte, Tangsa, Wancho.

Major Religions: Buddhism, Hinduism, Christianity.

Main Towns: Itanagar, Tawang, Bomdila, Ziro, Seppa, Daporijo, Along, Pasighat, Yingkiong, Anini, Tezu, Khonsa, Walong.

Geography: (a) Rivers: Siang (name of Brahmaputra), its tributaries - Lohit, Subansiri, Dibang, Kameg, Dikrong River (famous for watersports). (b) Mountains: Great Himalaya, Lesser Himalaya, Assam Shiwalik: Daffa Hills, Miri Hills, Mishmi Hills, Abor Hills Peaks: Shallum-4336, Ddaphabum-4578; (c) Pass

Bum La, Tse La, Tunga, Yonggyap, Diphu, Kumjawng, Hpungan, Chaukan, Pangasau (d) Forest: 60% of the state (e) Wildlife: Namdapha NP, Monling NP.

Economy: (a) Minerals: Coal, dolomite, marble, lead, zinc, graphite; (b) Industries: sawmills, plywood (these two trades however have been stopped by law), rice mills, fruit preservation units and handloom handicrafts; (c) Agricultural Products: Among the crops grown here are rice, maize, millet, wheat, pulses, sugarcane, ginger and oilseeds. Arunachal is also ideal for horticulture and fruit orchards. [Agriculture is the primary driver of the economy. Jhum, the local word for shifting cultivation, which was widely practised among the tribal groups has come to be less practiced. The forest-products are the next most significant sector of the economy]

Transport & Communications: (a) Main Railway Stations: Bhalukpong; (b) Airports: Itanagar, Daparijo, Ziro, Along, Tezu, Pashigat.

Shopping: Handicrafts, jackets, bags, Sherdukpan shawls are very popular.

Education: (a) Schools: 1901; (b) Colleges: 9; (c) Universities: 1

Culture: (a) Dances: Popir, Aji Lama, Hiiri Khaning, Cham, War dance; (b) Festivals: Mopin, Solung, Lossar, Booriboot, Dree, Si-Donyi, Reh, Nyokum, Chalo-loku.

Asom (Assam)

Date of Formation: 26 Jan 1950

Area: 78,438 sq km.

Capital: Dispur

Neighbouring States: Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Tripura, Mizoram, West Bengal

Population: 26,655,528; Males: 13,777,037; Females: 12,878,491; Urban Population: 12.72%; (a) Population Density: 340; (b) Sex Ratio: 932.

Literacy: 63.3%; Males: 71.3; Females: 54.6

No. of Districts: 23

District	Area (sq km)	Population (2001)	Headquarters
Barpeta	3,245	16,42,420	Barpeta
Bongaigaon	2,510	906,315	Bongaigaon
Cachar	3,786	14,42,141	Silchar
Darrang	3,481	15,04,000	Marigaon
Dhemaj	3,217	569,469	Dhemaj
Dhubri	2,838	16,34,569	Dhubri
Dibrugarh	3,381	11,72,056	Dibrugarh
Goalpara	1,824	822,306	Goalpara
Golaghat	3,502	945,781	Golaghat
Hailakandi	1,327	542,978	Hailakandi
North Cachar Hills	4,868	186,169	Nalbari
Jorhat	2,851	10,09,197	Jorhat
Kamrup	4,345	25,15,030	Guwahati
Karbi Anglong	10,434	812,320	Diphu
Karimganj	1,839	10,03,678	Karimganj
Kokrajhar	3,129	930,404	Kokrajhar
Lakhimpur	2,277	889,325	N. Lakhimpur
Morigaon	1,704	775,874	Morigaon
Nagaon	3,831	23,15,387	Nagaon
Nalbari	2,257	11,38,184	Nalbari
Sibsagar	2,668	10,52,602	Sibsagar
Somitpur	5,324	16,77,874	Tezpur
Tinsukia	3,790	11,50,146	Tinsukia

Villages: 26,312, **Towns:** 125

Governor: Lt. Gen (Retd.) Ajai Singh

CM: Tarun Kumar Gogoi

Legislative Bodies: State Legislature Seats: 126; Lok Sabha Seats: 14, Rajya Sabha Seats: 7

Main Political Parties: INC, ACP, BJP, NCP, Trinamool Congress, Samata Party, Samajwadi Party,

Seat of High Court: Guwahati.

Chief Languages: Assamese, Bengali

Major Religions: Hinduism, Islam, Buddhism.

Main Towns: Guwahati, Dispur, Tezpur, Silchar, Jorhat, Dibrugarh, Sibsagar, Karimganj, Tinsukia, Diphu, Dhemaj, Nagaon, Marigaon, Barpeta, Goalpara, Dhubri, Bongaigaon, Nalbari

Geography: (a) Rivers: Brahmaputra, Manas, Subansiri, Sonai; (b) Mountains: Mizo Hills, Rengma Hills, Barail Range. (c) Wildlife: Kaziranga National Park, Golaghat (for rhinos and elephants), Manas NP & (for rhinos and elephants), Manas NP &

Flamen National Park-Sonitpur, Pobitora WS-Morigaon, Dibru Saikhow NP-Tinsukia, Laokhowa WS-Nagaon, Pobha WS-N. Lakhimpur, Orang WS-Sonitpur

Economy: (a) Minerals: Oil and natural gas, coal, limestone; (b) Industries: Agro industries, refinery, cottage, handicraft, silk; (c) Agricultural Products: Rice, jute, tea, cotton, oilseeds, sugarcane, potato, orange, pineapple.

Transport & Communication: (a) Road Length: 34,000 km; (b) Railway Length: 2,391.76 km; (c) Main Railway Stations: New Bongaigaon, Maligaon, Dibrui, Rangla, Lumding, Jorhat; (d) Airports: Dibrugarh, Guwahati, Jorhat, Silchar, Lakhimpur and Tezpur.

Temples: Kamakhya temple (Nilachal hills), Umananda mandir (Peacock Is.), Navagraha mandir (Chitrachal hill).

Shopping: Sualkuchi (famous for muga silk, endi and pat). Handicrafts: bamboo articles, cane, brass and metal crafts. Assam is famous for varieties of silk, bangles, clay dolls, pottery, woodworks, mattresses, etc.

Education: (a) Schools: 42483; (b) Colleges: 358; (c) Universities: 7

Employment ('99-00): 7,647,000; Unemployment ('99-00): 8.0 %.

Culture: (a) Dances: Bonga Bihu, Bohag Bihu, Magh Bihu, Kongali; (b) Festivals: Bahukhi.

Bihar

Date of Formation: 15 Aug., 1947 (Provincy); 26 Jan. 1950 (State until 1956: part (A))

Area: 94,163 sq km

Capital: Patna

Neighbouring States/countries: Jharkhand, UP, West Bengal, (Nepal)

Population: 82,998,509; Males: 41,243,725; Females: 39,754,714; (a) Population Density 881; (b) Sex Ratio 919

Literacy: 47.0%; Males: 59.7; Females: 33.1.

No. of Districts: 37

District	Area (sq km)	Population (2001)	Headquarters
Araria	2,797	21,24,811	Araria
Aurangabad	3,389	20,04,960	Aurangabad
Banka	3,020	16,08,778	Banka
Begusarai	1,889	23,42,989	Begusarai
Bhagalpur	2,302	24,30,331	Bhagalpur
Bhojpur	2,137	22,31,415	Araria(Ar(a)
Buxar	1,634	14,03,462	Buxar
Darbhanga	2,502	32,85,473	Darbhanga
Gaya	4,941	34,64,903	Gaya
Gopalganj	2,001	21,49,343	Gopalganj
Jahangabad	1,569	15,11,406	Jhantabad
Jamui	2,997	1,397,474	Jamui
Kaimur	1,840	12,84,575	Bhatua
Katihar	3,010	23,89,533	Katihar
Khagaria	1,486	12,76,677	Khagaria
Kishanganj	1,239	12,94,063	Kishanganj
Lakhisarai	1,229	801,173	Lakhisarai
Munger	1,419	11,35,499	Munger
Sheikhpura	689	5,25,137	Sheikhpura
Madhepura	1,797	15,24,596	Madhepura
Madhubani	3,478	35,70,651	Madhubani
Muzaffarpur	3,123	32,43,836	Muzaffarpur
Nalanda	2,162	23,68,327	Bihanshal
Nawada	2,498	18,09,425	Nawada
Pachimi			
Champanan	4,230	30,43,044	Bethlah
Patna	3,130	42,09,851	Patna
Purbi Champaran	4,155	39,33,636	Motibari
Purnea	3,203	25,40,788	Purnia
Rohtas	3,838	24,48,762	Savarani
Saharsa	1,196	15,06,418	Saharsa
Samastipur	2,579	34,11,413	Samastipur
Saran	2,624	32,51,474	Chhapra
Sheohar	443	514,288	Sheohar
Sitamarhi	2,628	26,69,807	Sitamarhi
Siwan	2,213	22,08,840	Siwan
Supaul	2,985	12,45,069	Supaul
Valhall	1,995	22,12,389	Happur

Villages: 45,098; **Towns:** 130.

Governor: RS Gaval

CM: Nitish Kumar

Legislative Bodies: State Legislature: Bicameral - Seats: 243, Legh. Council: 25; Lok Sabha Seats: 40; Rajya Sabha Seats: 16

Main Political Parties: Bharatiya Janata Party, Rashtriya Janata Dal, INC, NCP, CPI, BSP, CPI(M), Janata Dal (United), CPI, Samajwadi Party, Lok Jan Shakti Party...

Seat of High Court: Patna

Chief Languages: Hindi, Urdu, Santhali

Economy: (a) Minerals: Copper, Coal, Iron, Limestone, Manganese and a diamond reserve; (b) Industries: most industries are mineral based like BALCO or Bhilai Steel plant, or forest based; (c) Agricultural Products: Tendu leaves, chironji, harhar, baheda, mahu flowers and sal seeds - predominantly forest products

Transport & Communications: (a) Road Length: 35388.54km NH-1827.30km; SH-3611km (b) Railway Length 1053km; (c) Main Railway Stations: Raipur, Bilaspur, Durg, Korba, Raigarh, and Rajnandgaon; (d) Airports: Raipur, (Airstrips: Bilaspur, Bhilai, Jagdalpur, Ambikapur, Korba, Jashpurnagar and Rajnandgaon)

Education: (a) Schools: 33015; (b) Colleges: 218; (c) Universities: 9

Culture: (a) Festivals: Pola, Nawakhai, Dussehara, Diawali, Holi, Govardhan Puja.

Goa

Date of Formation: 30 May, 1987

Area: 3,702 sq.km

Capital: Panaji

Neighbouring States: Karnataka, Maharashtra, Arabian Sea

Population: 1,347,668; Male: 687,248, Female: 660,420; Urban Pop: 49.8%; (a) Population Density: 364; (b) Sex Ratio: 960

Literacy: 82.0%; Males: 88.4; Females: 75.4.

No. of Districts: 2

District	Area (sq km)	Population (2001)	Head-quarters
North Goa	1,736	7,57,407	Panaji
South Goa	1,966	5,86,591	Margao

Villages: 359; **Towns:** 44

Governor: SC Jamir

CM: Pratapsingh Raoji Rane

Legislative Bodies: State Legislature: Unicameral-Seats: 40; Lok Sabha Seats: 2, Rajya Sabha: 1.

Main Political Parties: BJP, INC, United Gomantwadi Democratic Party, NCP, Maharashtra Gomantak Party.

Seat of High Court: Bombay.

A bench of Bombay High court is at Panaji. District Court is in South Goa.

Chief Languages: Konkani and Marathi
Major Religions: Hinduism and Christianity

Main Towns: Panaji, Margao, Vasco, Mapusa, Ponda

Geography: (a) Rivers: Mandovi, Zuari, Terekhol, Chapora and Betul; (b) Mountains: Western Ghats; (c) Lake: Mayem; (d) Caves: Khandepur, Arvalem. (e) Wildlife: Dr. Salim Ali Bird Sanctuary, the Bondla Wildlife Sanctuary, Cotigao Wildlife Sanctuary, Molem National Park, Bhagwan Mahavir Wildlife Sanctuary, the Mormugao harbour. (f) Beaches: Bogmalo (water sports), Calangute, Colva, Mandrem, Morjim, Anjuna, Baga, Candolim, Sinquerim, Majorda, Benaulim, Varca, Agonda and Vagator. (g) Waterfalls: The Aravelam waterfalls-adjacent to it is Rudreshwara temple and interesting rock-cut caves, the Mayem lake, the Dudsagar waterfalls-little downward is the Devil's Canyon suitable for trekkers and hikers.

Economy: Paddy is the main agricultural crop, followed by ragi, cashew and coconut. The state has a rich forest cover of more than 1,424 sq.km. Fishing sustains a work force of 40,000 people. (a) Minerals: Iron ore, manganese, ferro-manganese, bauxite, silica sand; (b) Industries: Mining industries, small scale industries like breweries, fruit canning, fish canning, stoves, automobile batteries, printing press, computer peripherals, zip fastener, etc.; (c) Agricultural Products: rice, pulses, ragi, groundnut, maize, jowar, bajra, sugarcane, coconut, cashewnut, arecanut, pineapple, mango, banana.

Transport & Communications: (a) Road Length: National highway-224 km, state highways-232 km, district roads-815 km.; (b)

Railway Length: Goa is linked with Mumbai, Mangalore and Thiruvananthapuram through the Konkan railway; (c) Main Railway Stations: Margao, Canacona, Balli, Verna, Karmali, Thivim, Pernem; (d) Airports: Dabolim International (29km from Panaji); (e) Chief Port: Mormugao, Dona Paula.

Fort: Tiracol - built by Marathas in 1745, Cabo da Rama-juts into the sea, Cabo-now governor's house, Reis Magos-named after Biblical Magi Kings who is believed to have owned this place and the Aguada Fort- built by Portuguese between 1609-1612 - now used as central prison.

Cuisine: Sweets: Bebinca, Dodol, Sanna, Delicacies: Bangra, pork vindaloo, sorpotel, acuti, chourisso.

Education: (a) Schools: 1537; (b) Colleges: 39; (c) Universities: 1

Culture: (a) Dances: Fugdi, Dhalo (folk); Dekni, Kumbi, Bandhap (women); Mando (love - east-west mix), Ghode Mondli (Ranes victory over Portuguese), Goff & Hanpet Sword (during Shigmo), Dhangar (Navratri), Kala and Dashavtari; (b) Festivals: Carnival, Shigmotsav (Feb/Mar), Sabado Gordo (Feb), Beach Bonanza (Apr), Konkani Drama Fest (Nov/Dec).

Gujarat

Date of Formation: 1 May 1960

Area: 196,024 sq km

Capital: Gandhinagar

Neighbouring States/UT: Rajasthan, Maharashtra, MP, Daman-Diu, Dadra Nagar Haveli, Pakistan (country), Arabian Sea.

Population: 50,671,017; Males: 26,385,577; Females: 24,285,440; Urban Population: 37.35%; (a) Population Density: 258; (b) Sex Ratio: 921

6. Literacy 69.1%; Males: 79.7; Females: 57.8.

No. of Districts: 25

District	Area (sq km)	Population (2001)	Head-quarters
Ahmedabad	8,087	58,08,378	Ahmedabad
Amreli	7,397	13,93,295	Amreli
Anand	2,941	18,56,712	Anand
Banaskantha	10,757	25,02,843	Palanpur
Bharuch	6,527	13,70,104	Bharuch
Bhavnagar	9,981	24,69,264	Bhavnagar
Dahod	3,646	16,35,374	Dahod
Dangs	1,764	1,86,712	Ahiwa
Gandhinagar	2,163	13,34,731	Gandhinagar
Jamnagar	14,125	18,16,029	Jamnagar
Junagadh	8,846	24,48,427	Junagadh
Kheda	4,219	20,23,354	Nadiad
Kutch	45,652	15,26,321	Bhuj
Mehsana	4,384	18,37,696	Mehsana
Narmada	2,755	5,14,083	Rajpipla
Navsari	2,209	12,29,250	Navsari
Panchmahals	5,220	20,24,883	Godhara
Patan	5,730	11,81,941	Patan
Porbandar	2,298	5,36,854	Porbandar
Rajkot	1,203	25,71,931	Rajkot
Sabarkantha	7,390	20,83,416	Hummatnagar
Surat	7,657	49,96,391	Surat
Surendranagar	10,489	15,15,147	Surendranagar
Vadodara	7,549	36,39,775	Vadodara
Valsad	3,035	14,10,680	Valsad

Villages: 18,539; **Towns:** 242

Governor: Nawal Kishore Sharma

CM: Narendra Modi

Legislative Bodies: State Legislature: Unicameral - Seats: 182; Lok Sabha Seats: 26; Rajya Sabha Seats: 11

Main Political Parties: BJP, INC, JD...

Seat of High Court: Ahmedabad

Chief Languages: Gujarati

Major Religions: Hinduism, Islam

Main Towns: Ahmedabad International, Vadodara, Bhavnagar, Bhuj, Surat, Jamnagar, Kandla, Mehsana, Porbandar, Rajkot.

Geography: (a) Rivers: Sabarmati, Mahi, Narmada, and Tapti. Smaller rivers like Banas, Saraswati and Damanganga; (b) Mountains: Gir Range, Barda Hills, Girnar Hills. (c) National Parks: Gir NP-asiatic lions, Pirotan Marine National Park-known for corals and fish, Wild Ass Sanctuary-Rann of Kutch, Nal Sarovar Bird Sanctuary, Ratanal

Sloth Bear Sanctuary-Gujarat-MP border, Velavadar NP, Vansda NP.(d) Beaches: Porbandar, Chorwad, Beyt Dwaraka, Somnath and Veraval, Mandvi near Delvada.

Economy: (a) Minerals: petroleum oil, natural gas; (b) Industries: Textiles, inorganic chemicals (caustic soda, soda ash), petrochemicals, drugs, oil refinery, pharmaceuticals, cement, electronic and electrical goods, machine tools, sugar, oil, etc.; (c) Agricultural Products: Bajra, jowar, maize, rice, wheat, tobacco, cotton, groundnut, isabgol, sugarcane, mangoes, bananas.

Transport & Communications: (a) Road Length: 74075km.; (b) Main Railway Stations: Ahmedabad, Vadodara, Bharuch, Valsad, Navsar, Surat, Dahod, Nadiad, Bhavnagar, Bhuj, Jamnagar, Rajkot, Mehsana, Himatnagar, Palanpur; (c) Airports: Ahmedabad International, Vadodara, Bhavnagar, Bhuj, Surat, Jamnagar, Kandla, Keshod, Porbandar, Rajkot; (d) Port: Kandla.

Important Shrines: Modhera Sun temple-Mehsana, Hatheesing Jain Temple, Bhadrashwar-Jain pilgrimage, Shamlaji -famous Vaishnava temple, Jama Masjid, Rani Rupmati mosque, Akshardham temple-made of sandstone, Parsees Fire temple-Udwada.

Historic Places: Patan-remains of Solanki dynasty, Lothal and Dholavira-remains of Harrappan civilisation, Adlaj Vav (world's most famous elaborated well)-Gandhinagar, Rani ki Vav-built by Udayamati (queen of Bhimdeva 1 between 1022 and 1063, Uperkot Fort - built by Yadavas.

Shopping: Patola saris, bead-embroidered ghagras, cholis, torans, tondris, chakla, zari, chandrawas, Namdas-felt embroidered with wool, block printed textiles, clay painting, hand painted fabrics.

Education: (a) Schools: 44912; (b) Colleges: 545; (c) Universities: 28.

Culture: (a) Dances: Garba (Lasya Nritya) and , Dandia Ras (Ras Leela, folk), Tippi (women labourers); (b) Festivals: Janmastami,

-Dwarka and Dakor, Mahavir Jayanti-Palitana, International Kite Festival- Jan, Makar Sankranti, Navratri-Sep/Oct, Tarnetar fair (Aug-Sept), Madhavrai fair - Porbandar (Mar-April), Ambaji fair- Banaskanta dist, Shamlaji fair, Dangi durbar- March, etc.

Haryana

Date of Formation: 1 Nov 1966 State created from part of Punjab

Area: 44,212 sq km

Capital: Chandigarh

Neighbouring States: Punjab, Chandigarh, Himachal Pradesh, Uttaranchal, Uttar Pradesh, Delhi, Rajasthan.

Population: 21,144,564; Males: 11,363,953; Females: 9,780,611; Urban Population: 29%; (a) Population Density: 478; (b) Sex Ratio: 861

Literacy: 67.9%; Males: 78.5; Females: 55.7.

No. of Districts: 20

District	Area (sq km)	Population (2001)	Headquarters
Ambala	1,574	10,13,660	Ambala
Bhiwani	4,778	14,24,554	Bhiwani
Faridabad	2,151	21,93,276	Faridabad
Fatehabad	2,520	8,06,158	Fatehabad
Gurgaon	2,766	16,57,669	Gurgaon
Hissar	3,983	15,36,417	Hissar
Jhajjar	1,834	8,87,392	Jhajjar
Jind	2,702	11,89,725	Jind
Kaithal	2,317	9,45,631	Kaithal
Karnal	2,538	12,74,843	Karnal
Kurukshetra	1,530	8,28,120	Kurukshetra
Mahendragarh	1,859	8,12,022	Narnaul
Panchkula	898	4,69,210	Panchkula
Panipat	1,268	9,67,338	Panipat
Rewari	1,582	7,64,727	Rewari
Rohtak	1,745	9,40,036	Rohtak
Sirsa	4,277	11,11,012	Sirsa
Sonapat	2,122	12,78,830	Sonapat
Yamunanagar	1,768	9,82,369	Yamunanagar
Sasayamvapuram	2003	-	Nooh

Villages: 6,955; **Towns:** 106

Governor: Dr. AR Kidwai

CM: Bhupinder Singh Hooda

Legislative Bodies: State Legislature:

Unicameral - Seats: 90; Lok Sabha Seats: 10; Rajya Sabha Seats: 5

Main Political Parties: INC, Indian National Lok Dal, BJP, BSP, NCP.

Seat of High Court: Chandigarh

Chief Languages: Hindi, Punjabi, Urdu

Major Religions: Hinduism, Islam, Christianity.

Main Towns: Karnal, Rohtak, Panipat, Hisar, Yamunanagar, Kaithal, Gurgaon, Faridabad, Sirsa, Rewar, Bhiwani, Narnaul

Geography: (a) Rivers: Ghaggar, Yamuna; (b) Mountains: Lower Shiwalik Range, Rewari Upland, Delhi Range (c) Lakes: Sirajkhanda, Badkhal, Chakarvati. (d) National Park: Sultanpur Bird Sanctuary.

Economy: (a) Minerals: Limestone, slate, dolomite, china clay, graphite and quartz; (b) Industries: cement, sugar, paper, cotton, textiles, glassware, brassware, cycles, tractors (largest production in the country), motorcycles, timepieces, automobile tyres and tubes, sanitaryware, television sets, steel tubes, hand tools, cotton yarn, refrigerators, vanaspathi, ghee and canvas shoes; (c) Agricultural Products: Rice, wheat, maize, bajra, cotton, sugarcane, barley potato, and pulses.

Transport & Communications: (a) Road Length: 30,468 km; NH 1 - Murthal to Delhi border to Karnal; NH 2 - Ballabgarh to UP border (b) Main Railway Stations: Ambala, Panipat, Kurukshetra and Jakhai. (Jagadhari - railway workshop). (d) Airports: Pinjore, Karnal, Hissar, Bhiwani, Narnaul.

Tourist Destinations: Badkhal Lake-Faridabad, Panipat and Karnal-former site of fierce battles is now famous for furnishing textiles, Kurukshetra Tank, Yadavindra Gardens-Pinjore, Sultanpur Jheel (bird sanctuary).

Education: (a) Schools: 16964; (b) Colleges: 225; (c) Universities: 7

Employment: 5,982,000; Unemployment: 4.77%

Culture: (a) Festivals: Holi, Teej, Drwali, Gugga Pir, Sanjhi, Karca Chauth-for women, Surajkund - famous for popular crafts mela- held in February, Janmashtami Fair-Bhiwani, Masani Fair-Gurgaon; (b) Crafts: Moohra making, khes, druggets, Punja durries.

Himachal Pradesh

Date of Formation: 25 Jan. 1971 State

Area: 55,673 sq km

Capital: Shimla

Neighbouring States: J&K, Punjab, Haryana, Uttaranchal, China (country)

Population: 6,077,900; Males: 3,087,940; Females: 2,989,960; Urban Population: 9.79%; (a) Population Density: 109; (b) Sex Ratio: 970

Literacy: 76.5%; Males: 85.3; Females: 67.4.

No. of Districts: 12

District	Area (sq km)	Population (2001)	Headquarters
Bilaspur	1,167	3,40,735	Bilaspur
Chamba	6,528	4,60,499	Chamba
Hamirpur	1,118	4,12,009	Hamirpur
Kangra	5,739	13,38,536	Dharamshala
Kinnaur	6,401	83,950	Reckong Poo
Kullu	5,503	3,79,865	Kullu
Lahaul & Spiti	13,835	33,224	Keylong
Mandi	3,950	9,00,987	Mandi
Shimla	5,131	7,21,745	Shimla
Sirmaur	2,825	4,58,351	Nahan
Solan	1,936	4,99,360	Solan
Una	1,540	4,47,967	Una

Villages: 20,118; **Towns:** 57

Governor: Justice Vishnu Sadashiv Kokje

CM: Virbhadra Singh

Legislative Bodies: State Legislature. Unicameral - Seats: 68; Lok Sabha Seats: 4; Rajya Sabha Seats: 3

Main Political Parties: INC, BJP, Himachal Vikas Congress, Lok Jan Shakti Party, Loktantrik Morcha Himachal Pradesh.

Seat of High Court: Shimla

Chief Languages: Hindi, Punjabi, Kinnauri, Pahari

Major Religions: Hinduism, Buddhism, Islam.

Main Towns: Shimla, Mandi, Dharma-shala, Kullu, Manali, Bilaspur, Chamba, Khyang, Kalpa, Kangra

Geography: (a) Rivers: Ravi, Beas, Chenab, Satluj, Yamuna; (b) Mountains: Great Himalaya, Punjab Himalaya, Suket Hills, Shimla Hills, Shiwalik Range, Mussoorie Range, Nag Tibba Range; (c) Lake/ Valley: Kangra Valley, Mahasu Valley, Rampur Valley, Spiti Valley, Lahul Valley, Baspa Valley, Govind Sagar; (d) Pass: Rohtang; (e) Parks and Valleys: Kufri-Himalayan Nature Park, Sangla; (f) Lake: Renuka, Rewalsar - Mandi

Economy: (a) Minerals: Rock salt, slate, gypsum, limestone, barytes, dolomite, pyrites; (b) Industries: IT, Bio-technology, brewery, fruit processing, cement, electronics; (c) Agricultural Products: wheat, maize, rice, barley, vegetable, potato, ginger, soyabean, oilseed, pulses. Fruits: apple, pear, peach, plum, apricot, mango, litchi, guava, strawberry.

Transport & Communications: (a) Road Length: 21,935 km. NH-1235 kms.; (b) Railway Length-two narrow gauge lines (Pathankot to Jogindernagar and Kalka to Shimla) and the broad gauge line from Nangal to Talwara, is under construction; (c) Main Railway Stations: Pathankot, Joginder Nagar; (d) Airports: Bhuntar (Kullu Valley), Jubbarhatti (Shimla) and Gaggal (Kangra). Airstrip: Banikhet (being built).

Shrines: Lakshmi Devi-Manimahesh, Paonta Sahib Gurudwara, Jwalamukhi, Jakhu Hanuman temple-Shimla, Bhimkali temple-Sarahan, Bajreshwari Devi temple-Kangra.

Shopping: Pashmina shawls are very famous, rugs, namdas, gudma, are some of the native attractions. McLeod Ganj- Tibetan textiles, Dalhousie- Kulu shawls and Tibetan handicrafts, Lakkar Bazar,

Education: (a) Schools: 14909; (b) Colleges: 82; (c) Universities: 8

Employment: 2,371,000 (1999-2000)

Culture: (a) Dances: Nati; (b) Festivals: Dussehra of Kulu - begins on Vijay Dashmi; Shivratri of Mand (Feb/Mar); Minjar Fest in Chamba; Lavi Fair at Rampur; Renuka Fair (Aug/Sep); Lohri or Maghi, Lahual and Phulech-festival of flowers (c) Crafts: Pashmina and woollen shawls, namdas, gudma, thobis (floor covering made of goat hair), pullas (straw shoes).

Jammu & Kashmir

Date of Formation: 26 Oct 1947

Area: 2,22,236 sq km

Capital: Srinagar (Summer) Jammu (Winter)

Neighbouring States/countries: Himachal Pradesh, Punjab, (countries - Pakistan, Afghanistan, China.)

Population: 10,143,700; Males: 5,360,926; Females: 4,782,774; Urban Population: 24.88%; (a) Population Density: 100; (b) Sex Ratio: 900

Literacy: 55.5%; Males: 66.6; Females: 43
No. of Districts: 14

District	Area (sq km)	Population (2001)	Head-quarters
Anantnag	3,984	11,70,013	Anantnag
Badgam	1,371	6,32,338	Badgam
Baramula	4,588	11,66,722	Baramula
Doda	11,691	6,90,474	Doda
Jammu	3,097	15,71,911	Jammu
Kargil	14,036	1,15,227	Kargil
Kathua	2,651	5,44,206	Kathua
Kupwara	2,379	6,40,013	Kupwara
Ladakh	82,665*	1,17,637	Leh
Pulwama	1,398	6,48,762	Pulwama
Poonch	1,674	3,71,561	Poonch
Rajauri	2,630	4,78,595	Rajauri
Srinagar	2,228	11,83,493	Srinagar
Udhampur	4,550	7,38,965	Udhampur

* Includes 37,555 sq km under illegal occupation by China.

Villages: 6,652; **Towns:** 75

Governor: Lt Gen. (Retd.) SK Sinha

CM: Ghulam Nabi Azad

Legislative Bodies: State Legislature:

Bicameral Seats: Legislative Assembly: 76 (originally 100 but 24 of which are illegally under POK); Legis Council: 36. Lok Sabha Seats: 6; Rajya Sabha Seats: 4

Main Political Parties: Jammu and Kashmir National Conference; INC, People's Democratic Party, J&K National Panthers Party, CPI-M, J&K Awami League, Democratic Movement, BSP, BJP...

Seat of High Court: Srinagar and Jammu

Chief Languages: Urdu (official), Kashmiri, Dogri, Pahari, Balti, Ladakhi, Purig, Punjabi, Gurji, Dadri

Major Religions: Islam, Hinduism, Buddhism

Main Towns: Srinagar, Jammu, Leh, Anantnag, Baramulla, Pulwama, Punch, Doda, Udhampur

Geography: (a) Rivers: Chenab, Jhelum, Zaskar, Indus, Suru, Nubra and Shyok; (b) Mountains: (divided into 4 regions) Khandi Belt -Greater Himalayas, Great Karakoram, Trans-Himalaya; Siwalik range- Zaskar range, Kunlun; Kashmir Valley -Pirpanjal range; Tibetan tract- Ladakh range; (c) Lakes Wular, Achar, Dal, Pangong, Moriri, and Kar. (Mountain Lakes-Satsar, Vishansar, Kishansar, Gadsar, Gangabal); (d) Pass Zoji La pass; (e) Range Pir Panjal, Great Himalaya, Zaskar, Ladakh, Stok

Ladakh is also called 'Little Tibet' and sometimes 'the last Shangri La.' This region is marked by Buddhist monastries (gompas), and forts. Hemis Gompa- Leh offers some tough mountain treks to Zaskar valley- Pangong Lake-Tso Moriri Lake. The highest point there is at Zoji La pass.

Economy: (a) Minerals: Mica, fire clay, limestone, kaolin, bauxite; (b) Industries: Handicrafts, carpet, wood carving, shawl-making; (c) Agricultural Products: Paddy, maize, wheat, gram, bajra, jowar, barley, fruits like apple, and walnuts.

Transport & Communications: (a) Road Length 16,117 km.; (b) Main Railway Sta-

tions: Jammu; (Jammu-Udhampur railway line is under construction which will be extended to Srinagar and Baramulla) (c) Airports: Srinagar International, Jammu, Leh.

Shopping: Kashida embroidery, sonzi-fine needle work, and chikindozi-hookwork-jalakdozi-rafookari-Pashmina and kani shawls, silver jewellery, etc.

Education: (a) Schools: 16357; (b) Colleges: 91; (c) Universities: 5

Culture: (a) Dances: Ruf (women-romance and heroic), Kud (Dogramen), Hemis Gumpa; (b) Festivals: Assuj, Lohri, Sinh Sankranti, Bahu Mela in Jammu, Mela Losar, Mela Pat; Id-ul-fitr, Id-ul-Zzuha, Id Milad-un-Nabi, Meraj Alam in Kashmir, Muharram, Hemis in Ladakh.

Jharkhand

Date of Formation: 15 Nov 2000 (State created from part of Bihar)

Area: 79,714 sq km

Capital: Ranchi

Neighbouring States: Bihar, UP, Chhattisgarh, Orissa, West Bengal.

Population: 26,945,829; Males: 13,885,037; Females: 13,060,792; Urban Population: 22.25%; (a) Population Density: 338; (b) Sex Ratio: 941

Literacy: 53.6% (Males: 67.3; Females: 38.9)

No. of Districts: 18

District	Area (sq km)	Population (2001)	Headquarters
Bokaro	2,861	14,54,416	Bokaro
Chatra	3,706	6,12,713	Chatra
Deoghar	2,479	9,33,113	Deoghar
Dhanbad	2,075	19,49,526	Dhanbad
Dumka	3,716	9,50,853*	Dumka
Garhwa	4,044	8,01,350	Garhwa
Jamtara	4,887	14,96,189	Jamtara
Kodarma	2,110	8,61,182	Kodarma
Latehar	5,321	7,07,555*	Latehar
Hazaribagh	5,965	18,36,068	Hazaribagh
Jamsheda	1,802	5,44,855*	Jamsheda
Kodarma	1,311	3,94,763	Kodarma
Latehar	3,660	4,67,327*	Latehar

Lohardaga	1,491	2,88,886	Lohardaga
Pakaur	1,806	5,64,253	Pakaur
Palamu	4,015	11,82,770*	Daltonganj
Paschimi Singhbhum	5,290	10,80,780*	Chabasa
Purbi Singhbhum	3,553	16,13,088	Jamshedpur
Ranchi	7,574	22,14,088	Ranchi
Sahebganj	1,706	7,36,835	Sahebganj
Seraikela	2,725	7,07,175*	Seraikela
Simdega	3,756	4,46,421*	Simdega

#Khunti district is under consideration.* Population refers to 1991 census.

Villages: 32,615; **Towns:** 152

Governor: Syed Sibtey Razi

CM: Madhu Koda

Legislative Bodies: State Legislature: Unicameral - Seats: 81; Lok Sabha Seats: 14; Rajya Sabha Seats: 6

Main Political Parties: BJP, INC, NCP, JMM, RJD, JD-United, All India Forward Block, CPI-ML, Jharkhand Students Union, Jharkhand Party...

Seat of High Court: Ranchi

Chief Languages: Hindi, Urdu, Maithili, Bhojpuri

Major Religions: Hinduism, Islam, Buddhism

Main Towns: Ranchi, Jamshedpur, Dhanbad, Daltonganj, Deogarh, Dumka, Hazaribagh, Bokaro, Chaibasa, Chatra, Gumla, Garwa, Giridih

Geography: (a) Rivers: Sankh, South Koel, Damodar, Subarnarekha, Barakat; (b) Mountains: Chotanagpur Plateau, Hazaribagh Plateau, Rajmahal Hills, Parasnath (1366m); (c) Reservoir: Tilaiya, Konar, Govind Ballabh Pant Sagar (d) National Park: Palamau NP, Hazaribagh NP.

Economy: Jharkhand's economy is sustained by mining and heavy industry. It is India's second most important source of coal, mining 26 per cent of the total. In minerals, Jharkhand is probably India's richest state. Jharkhand has rich reserves of iron ore and coal and several industries. The two major steel plants of India are located in Jharkhand: at Jamshedpur and Bokaro. (a) Minerals: iron ore and coal; (b) Industries: Steel, mining,

heavy industries; (c) Agricultural Products: Agriculture is poorly developed. Irrigation is negligible. Drought, therefore, is a periodic threat.

Transport & Communications: (a) Road Length: 4,311km, including 1,500km NH and 2,711km SH; (b) Main Railway Stations: Ranchi, Bokaro, Dhanbad, Jamshedpur, Muri, Deogarh; (c) Airports: Ranchi, Jamshedpur.

Education: (a) Schools: 22821; (b) Colleges: 145; (c) Universities: 7

Culture: (a) Dances: Chhau; (b) Festivals: Chhath, Diwali, Id, Buddha Purnima, Durga Puja. Tribal Festivals: Sarhul, Bandna, Sohrai and Dasai.

Karnataka

Date of Formation: 15 Aug 1947 Mysore state (1950-56: part (B); 1 Nov 1973 Renamed Karnataka

Area: 1,91,791 sq km

Capital: Bangalore

Neighbouring States: Kerala, Goa, Maharashtra, AP, Tamil Nadu

Population: 52,850,562; Males: 26,898,918; Females: 25,951,644; (a) Population Density: 276; (b) Sex Ratio: 964

Literacy: 66.6%; Males: 76.1; Females: 56.9.

No. of Districts: 27

District	Area (sq km)	Population (2001)	Head-quarters
Bagalkot	6,594	16,52,232	Bagalkot
Bangalore	2,190	65,23,110	Bangalore
Bangalore Rural	5,815	18,77,416	Bangalore
Belgaum	13,415	42,07,264	Belgaum
Bellary	8,419	20,25,242	Bellary
Bidar	5,448	15,01,374	Bidar
Bijapur	10,475	18,08,863	Bijapur
Chamarajanagar	5,685	9,64,275	Ch.nagar
Chickmagalur	7,201	11,39,104	Chickmagalur
Chitradurga	8,388	15,10,227	Chitradurga
Dakshina Kannada	4,843	18,96,403	Mangalore
Davanagere	6,018	17,89,693	Davanagere
Dharwad	4,230	16,03,794	Dharwad
Gadag	4,657	9,71,955	Gadag
Gulbarga	16,224	31,24,858	Gulbarga

Hassan	6,814	17,21,319	Hassan
Haveri	4,851	14,37,860	Haveri
Kodagu	4,102	5,45,322	Madikeri
Kolar	8,223	25,23,406	Kolar
Koppal	8,458	11,93,496	Koppal
Mandya	4,961	17,61,718	Mandya
Mysore	6,269	26,24,911	Mysore
Raichur	5,559	16,48,212	Raichur
Shimoga	8,465	16,39,595	Shimoga
Tumkur	10,598	25,79,516	Tumkur
Duppi	3,598	11,09,494	ñ
Kannada	10,291	13,53,299	Karwar

Villages: 29,406; **Towns:** 270

Governor: T.N. Chaturvedi

CM: H.D. Kumaraswamy

Legislative Bodies: State Legislature: Bi-cameral; Legislative Assembly- 224, Legislative Council- 75; Lok Sabha Seats: 28; Rajya Sabha Seats: 12

Main Political Parties: BJP, INC, JD (S), IU (U), CPI-M, Kannada Nadu Paksha, Kannada Mahalali Vatal Paksha

Seat of High Court: Bangalore

Chief Languages: Kannada

Major Religions: Hindu, Islam, Christianity

Main Towns: Bidar, Gulbarga, Bijapur, Belgaum, Dharwad, Raichur, Bellary, Shimoga, Mangalore, Madikeri, Mysore, Bangalore, Kolar, Tumkur, Hassan, Devan-gere.

Geography: (a) Rivers: Krishna, Tungabhadra, Cauvery, Kabani; (b) Mountains: Western Ghats, Chitradurga Hills, Tumkur-Cholepet Hills, Mysore Plateau, Biligiri Rangan Hills, Nandi Hills, Gokak Hills, Badami Hills. (c) National Park: Bandipur Wildlife Sanctuary

Economy: (a) Minerals: Gold silver, iron ore, copper, chromite, magnesite, corundum, garnet, limestone; (b) Industries: Aircraft, electronics, software, telecom equipment, alloy steel, machine tools, watches, porcelain, automobiles, etc.; (c) Agricultural Products: Rice, sorghum, bajra, ragi, maize, groundnut, sunflower, mulberry, coconut, Potato, grapes, watermelon, etc.

Transport & Communications: (a) Road length: 1,17,972 km.; NH-3728 km (b) Rail-

way Length: 3100km. The Konkan Railway, the new rail link between Mumbai and Mangalore was dedicated to the nation on May 1, 1998; (c) Main Railway: Stations Bangalore, Mysore, Tumkur, Hosur, Hassan, Mandya, Bellary, Hubli, Bijapur, Gulbarga, Belgaum, Dharwad; (d) Airports: Bangalore, Belgaum, Mangalore, Hubli and Devenhalli (2007); (e) Port: New Mangalore port is the main all-weather seaport.

Adventure Sports: Ramanagaram-rock climbing-50 km from Bangalore, Honnemaradu on Sharavathy-crocodile rafting, canoeing and wind surfing, Cauvery Fishing Camp-82 km from Mysore for anglers, Kudremukh and Kemman Gundi-trekking.

Education: (a) Schools: 59485; (b) Colleges: 1279; (c) Universities: 20

Employment ('99-00): 20,333,000; Un-Employment ('99-00): 4.57%.

Culture: Festivals: Mysore Dussera, Karaga, Ugadi (Kannada New Year), Diwali, Kar Hunnive, Navaratri, Yellu Amavasya, Ramzan.

Kerala

Date of Formation: 1st Nov. 1956

Area: 38,863 sq km

Capital: Thiruvananthapuram

Neighbouring States: Tamil Nadu, Karnataka, Mahe, Lakshdweep Is.

Population: 31,841,374; Males: 15,468,614; Females: 16,372,760; Urban Population: 25.97%; (a) Population Density: 819; (b) Sex Ratio: 1058

Literacy: 90.9%; Males: 94.2; Females: 87.7

No. of Districts: 14

District	Area (sq km)	Population (2001)	Head-quarters
Alappuzha	1,414	1,764,600	Alappuzha
Ernakulam	2,950	2,100,000	Ernakulam
Idukki	4,476	1,100,000	Idukki
Kannur	2,050	1,100,000	Kannur

Kasargod	1,992	1,085,941	Kasargod
Kollam	2,491	2,137,761	Kollam
Kottayam	2,208	1,795,670	Kottayam
Kozhikode	2,345	2,297,746	Kozhikode
Malappuram	3,550	3,297,512	Malappuram
Palakkad	4,480	2,363,558	Palakkad
Pathanamthitta	2,637	1,110,218	Pathanamthitta
Thiruvananthapuram	2,192	2,237,347	Thiruvananthapuram
Thrissur	3,032	2,434,998	Thrissur
Wyanad	2,132	751,007	Kalpette

Villages: 1,364; **Towns:** 159

Governor: R.L. Bhatia

CM: V.S. Achutanandan

Legislative Bodies: State Legislature: Unicameral - Seats: 140; Lok Sabha Seats: 20; Rajya Sabha Seats: 9

Main Political Parties: INC, CPI-M, Muslim League Kerala State Committee, Kerala Congress (M), CPI, JD(S), Revolutionary Socialist Party of Kerala, Kerala Congress, Kerala Congress (B), Kerala Congress (J), Democratic Indira Congress, NCP, CMP

Seat of High Court: Kochi

Chief Languages: Malayalam

Major Religions: Hinduism, Islam, Christianity

Main Towns: Thiruvananthapuram, Kochi, Kozhikode, Trissur, Kannur, Kottayam, Kollam, Alappuzha, Palakkad, Malappuram, Pathanamthitta

Geography: (a) Rivers : Periyar-244km, Bharatapuzha, also called Nila-209 km; Pamba -176km, Chaliyar-169, Kadaundi & Chalakkudy-130, Achenkovil-128, Kalada & Muvatupuzha-121km.;(Total 44 rivers-out of which 41 are west flowing and 3 eastward - Pambur, Bhawani and Kabani) (b) Mountains: Highest - Anamala (8841 ft), Karinkulam (8455ft), Mukutti (8330ft), Devimala (8273 ft) Highest Peak- Anamudi 2695 msl. (c) Lakes: Vembanad (205 sq km), Kayamakulam (51 sq km), Ashtamudi (50), Anjuthengu (20sq km). Fresh water lake- Shastamcota-3.7 sq km, Vellayni, and Pookat (d) Beaches: Kovalam, Varkala, Vizhinjam, Shankumukham -Trivandrum, Muzhapilan-gad and Payyam-

balam-Kannur, Kappad-Kozhikode. (e) Hill Stations: Munnar, Nelliampathay. (f) Backwaters: Alapuzha, Kollam, Veli, Kochi, Kumarakom-Kottayam. (g) Wildlife: Eravikulam National Park-known for Nilgiri Tahr, Periyar National Park, Parambikulam National Park, Silent Valley, Peppara National Park.

Economy: (a) Minerals: Ilmenite, Rutile, Kaolin, Limestone; (b) Industries: Coir and cashew are 2 large industries. Handloom and bamboo-based industries are well-developed. Kerala accounts for about 1/3 of India's marine exports. Software development and export is picking up; (c) Agricultural Products: The state has developed commercial agriculture more than food crops. Consequently, the state is short of foodgrains. Kerala accounts for 92% of India's rubber, 70% of coconut, 60% of tapioca and almost 100% of lemon grass oil. Kerala is the single largest producer of a number of other crops like banana and ginger, besides tea and coffee in abundance.

Main Irrigation Projects: Malampuzha, Chalakkudy, Peechi, Pamba, Periyar, Chittoorupuzha, Kuttiyadi, Neyyar, Chimmim

Main Power Projects: Pallivasal Hy., Chenkulam Hy., Peringalkut Hy., Neriyanmaralam Hy., Paniyar Hy., Sabarigiri Hy., Sholayar Hy. Brahmapuram Diesel, Kanjikode Wind farm, Kozhikode Diesel, Kayamakulam Thermal Power plant.

Transport & Communications: (a) Road Length: 2,19,805km; (b) Railway Length: 1,148km; (c) Main Railway Stations: Thiruvananthapuram, Kollam, Chengannur, Thiruvalla, Kottayam, Alapuzha, Ernakulam, Trissur, Palakkad, Kozhikode, Kannur, Kasargod; (d) Airports: Thiruvananthapuram, Nedumbassery (Kochi-India's first private airport, was opened in June, '99), and Kariapur. Port: Kochi.

Waterfalls: Athirapally, Vazhachal, Palaruvi
Famous Shrines: Jewish Synagogue

(Mattancherry, Kochi)-St Francis Church - Kochi, Padma-nabhaswamy temple-Trivandrum, Ayyappa temple-Sabarimala, Guruvayoor (Lord Krishna shrine)-Dwarka of the south, Attukal temple- Trivandrum, Methala mosque, Malik Dinar Mosque, St Thomas Memorial Church-Kodungalloor, St Thomas Church- Malayattoor, Mannarasala temple-Harippad, Parumala Church, and Kalady (the birthplace of Sri San-karacharya.

Education: * The first fully literate municipal town (Kottayam-1989), and district (Ernakulam-1990) in India are in Kerala. In 1991, Kerala became the first fully literate state in India. Literacy among adults: 39.9%.

Employment ('99-00):8,902,000; Un-Employment ('99-00):20.97%.

(a) Schools: 12700; (b) Colleges: 313; (c) Universities: 10

Culture: (a) Dances: Kathakali, Mohini-attam, Theyyam, Thullal, Margamkali, Oppana; (b) Festivals: Onam, Vishu, Ramzan, Christmas, Aluva Shivratri.

Bhind	4,459	14,26,951	Bhind
Bhopal	2,772	18,36,784	Bhopal
Chhatarpur	8,687	14,74,633	Chhatarpur
Chhindwara	11,815	18,48,882	Chhindwara
Damoh	7,306	10,81,909	Damoh
Datta	2,038	6,27,818	Datta
Dewas	7,020	13,06,617	Dewas
Dhaas	8,153	17,40,577	Dhaas
Dindori	7,427	5,79,312	Dindori
East Nimar	10,779	17,08,170	Khandwa
Guna	11,065	16,65,503	Guna
Gwalior	5,214	16,29,881	Gwalior
Indore	3,898	25,85,321	Indore
Harda	3,339	4,74,174	Harda
Hoshangabad	6,698	10,85,011	Hoshangabad
Jabalpur	5,210	21,67,469	Jabalpur
Jhabua	6,782	13,96,677	Jhabua
Katni	4,947	10,63,689	Katni
Mandla	13,269	8,93,908	Mandla
Mandsaur	9,791	11,83,369	Mandsaur
Morena	11,594	15,87,264	Morena
Narsinghpur	5,133	9,57,399	Narsinghpur
Neemuch	4,267	7,25,457	Neemuch
Panna	7,135	8,54,235	Panna
Raisen	8,466	11,20,159	Raisen
Rajgarh	6,154	12,53,246	Rajgarh
Ratlam	4,861	12,14,536	Ratlam
Rewa	6,134	19,72,333	Rewa
Sagar	10,252	20,21,783	Sagar
Satna	7,502	19,68,648	Satna
Sehore	6,578	10,78,769	Sehore
Seoni	8,758	11,65,893	Seoni
Shahdol	14,028	15,72,748	Shahdol
Shajapur	6,196	12,90,230	Shajapur
Sheopur	6,585	5,59,715	Sheopur
Shivpur	10,278	14,40,666	Shivpur
Sidhi	10,256	18,30,160	Sidhi
Tikamgarh	5,048	12,03,533	Tikamgarh
Ujjain	6,091	17,09,885	Ujjain
Umaria	4,026	5,15,851	Umaria
Vidisha	2,742	12,14,759	Vidisha
West Nimar	13,450	15,29,954	Madhya Pradesh

Madhya Pradesh

Date of Formation: 1 Nov. 1956

Area: 3,08,144 sq km

Capital: Bhopal

Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh

Population: 60,348,023; Males: 31,443,652; Females: 28,904,371; Urban Population: 26.67%; (a) Population Density: 196; (b) Sex Ratio: 920

Literacy: 63.7%; Males: 76.1; Females: 50.3.

No. of Districts: 45

District	Area (sq km)	Population (2001)	Head-quarters
Balaghat	9,229	14,45,760	Balaghat
Banwari	5,432	10,81,039	Banwari
Betul	10,043	13,94,421	Betul

Villages: 55,393; **Towns:** 394

Governor: Balram Jakhar

CM: Shivraj Singh Chauhan

Legislative Bodies: State Legislature: Unicameral -Seats: 230; Lok Sabha Seats: 29; Rajya Sabha Seats: 11

Main Political Parties: BJP, INC, Samajwadi Party, BSP, CPI-M, NCP, JD-U.

Seat of High Court: Jabalpur and benches at Gwalior and Indore

Chief Languages: Hindi

Major Religions: Hinduism, Islam, Buddhism

Main Towns: Bhopal, Gwalior, Sagar, Rewa, Jabalpur, Ujjain, Bhind, Ratlam, Seoni, Shajapur, Sagar, Guna, Itarsi, Shivpuri, Morena, Guna, Chindwara, Katni, Mandla, Umaria, Shahdol, Vidhisha.

Geography: (a) Rivers: Narmada, Chambal, Sindh, Betwa, Ken, Son, Tapi; (b) Mountains: Vindhya Range, Satpura Range, Malwa Plateau, Kaimur Hills, Maikala Range, Mahadeo Hills. (c) National Park / Sanctuary: Kanha, Bandhavgarh, Madhav, Karera Bird Sanctuary (Great Indian Bustard), Indravati tiger reserve; Dhuandhar Fall (Bhedaghat) and Marble rock - Jabalpur;

Economy: (a) Minerals: diamond, dolomite, limestone, bauxite, iron-ore, copper, coal, lead, tin, rock phosphate, traditional handicraft and handloom; (b) Industries: Heavy electricals, Govt. Mint, Security Paper mill, sugar mills, refractories, textile machinery, steel casting, electronics, automobiles, optical fibre, newsprint, rerolling, industrial gases, synthetics, drugs, engineering tools, chemical fertilisers, solvent extraction; (c) Agricultural Products: Jowar, wheat, rice, gram, oilseeds, pulses, soyabean, cotton, sugarcane.

Transport & Communications: (a) Road Length: 67,600 km. NH 3700 km, SH 7,300km; (b) Main Railway Stations: Bhopal, Bina, Gwalior, Indore, Itarsi, Jabalpur, Katani, Ratlam and Ujjain; (c) Airports: Bhopal, Gwalior, Indore, Khajuraho

Famous Temple towns: Khajuraho, Maheshwar, Omkareshwar, Ujjain, Chitrakoot Orchha, Amarkantak, Bhojpur, Udaypur.

Archeological Sites: Bhimbetka, Satna, Sanchi stupas (Buddhist), Vidisha, Mandasaur,

Education: (a) Schools: 89963; (b) Colleges: 592; (c) Universities: 17

Employment ('99-00): 28,725,000; Unemployment ('99-00): 4.45%.

Culture: (a) Dances: Gaur - bison hunt dance; (b) Festivals: Tan Sen Music Festival-

Gwalior; Ustad Allaiddin Festival -Maihar; Kalidas Samaroh- Ujjain; Festival of Dances- Khajuraho.

Bhagoriya - Jhabua(tribal), Holi, Shavan Somvar, Diwali, Id, Dussehra, Shivratri -Khajuraho, Bhojpur, Pachmarhi, Ujjain; Ramnavami - Chitrakoot, Orcha, Malwa, Pachmarhi.

Maharashtra

Date of Formation: The state of Bombay was bifurcated into Maharashtra and Gujarat on May 1, 1960, Maharashtra retaining the old capital Bombay.

Area: 3,07,713 sq km

Capital: Mumbai

Neighbouring States: Gujarat, Madhya Pradesh, Andhra Pradesh, Karnataka, Goa, Dadra and Nagar Haveli, Chhattisgarh

Population: 96,878,627; Males: 50,400,596; Females: 46,478,031; Urban

Population: 42.40%; (a) Population Density: 315; (b) Sex Ratio: 922

Literacy: 76.9%; Males: 86.0; Females: 67.0.

No. of Districts: 35

District	Area (sq km)	Population (2001)	Head-quarters
Ahmednagar	17,034	40,88,077	Ahmednagar
Akola	5,431	16,29,305	Akola
Amaravati	12,235	26,06,063	Amaravati
Aurangabad	10,106	29,20,548	Aurangabad
Beed	10,692	21,59,841	Beed
Bhandara	3,890	11,35,835	Bhandara
Buldana	9,680	22,26,328	Buldana
Chandrapur	11,417	20,77,909	Chandrapur
Dhule	8,061	17,08,993	Dhule
Gadchiroli	14,477	9,69,960	Gadchiroli
Gondia	5,431	12,00,151	Gondia
Mumbai City	157	33,26,837	Mumbai City
Hingoli	4,526	9,86,717	Hingoli
Jalgaon	11,757	36,79,936	Jalgaon
Jalna	7,715	16,12,357	Jalna
Kolhapur	7,692	35,15,413	Kolhapur
Latur	7,166	20,78,237	Latur
Mumbai (Sub.)	446	85,87,561	Mumbai (Sub.)
Nagpur	9,810	40,51,444	Nagpur
Nanded	10,545	28,68,158	Nanded
Nandurbar	5,035	13,09,135	Nandurbar

Nashik	15,539	48,87,923	Nashik
Osmanabad	7,550	14,72,256	Osmanabad
Parbhani	6,511	14,91,109	Parbhani
Pune	15,637	72,24,224	Pune
Raigad	7,162	22,05,972	Raigad
Ratnagiri	8,196	16,96,482	Ratnagiri
Sangli	8,578	25,81,835	Sangli
Satara	10,475	27,96,906	Satara
Sindhudurg	5,222	8,61,672	Sindhudurg
Solapur	14,886	38,55,383	Solapur
Thane	9,563	81,28,833	Thane
Wardha	6,311	12,30,640	Wardha
Washim	5,150	10,19,725	Washim
Yavatmal	13,594	24,60,482	Yavatmal

Villages: 43,711; **Towns:** 378

Governor: S.M. Krishna

CM: Vilasrao Deshmukh

Legislative Bodies: State Legislature: Bicameral - Seats: Legislative Council: 78; Legislative Assembly: 288; Lok Sabha Seats: 48; Rajya Sabha Seats: 19

Main Political Parties: NCP, INC, Shiv Sena, BJP, CPI-M, Jan Surajya Sharti, Peasant and Workers Party of India, Akhil Bharatiya Sena,

Seat of High Court: Mumbai (benches at Nagpur, Aurangabad and Panaji)

Chief Languages: Marathi

Major Religions: Hinduism, Islam, Parsi, Christianity, Jainism

Main Towns: Mumbai, Pune, Nagpur, Nashik, Nanded, Nandubhar, Akola, Aurangabad, Bid, Gondia, Jalgaon, Jalna, Kolhapur, Kudal, Parbhani, Solapur, Satara, Sangli, Wardha.

Geography: (a) Rivers: Godavari, Penganga, Manjra, Bhima, Varna, Panjhra, Wardha, Wainganga, Purna, Dudhaha, Pravara, Mula, Ghod, Sina, Tirna; (b) Mountains: Ajanta Range, Harishchandra Range, Balaghat Range, Satmala Hills, Gawlihar Hills, Mahabaleshwar, Kalsunai; (c) Lakes: Beale, Tansa, Andhra, Mulshi, Koyana Reservoir. (d) National Park: Nawegaon, Pench Taroba.

Sanctuaries: Nagzira, Tansa, Yawal, Doe, Devlagaon, Devlagaon.

Economy: (a) Minerals: Coal, Iron ore, Manganese, Chromite, Bauxite, Oil & Natural Gas; (b) Industries: Major industries are

chemicals and allied products, textiles, electrical and non-electrical machinery and petroleum and allied products, pharmaceuticals, engineering goods, machine tools, steel and iron castings and plasticware. Santa Cruz Electronics Export Processing Zone (SEEPZ), is a free trade zone for cent per cent export. India's first gold refinery is at Shirpur. The development of offshore oil fields at Mumbai High and the nearby Bassein North Oil Fields have contributed greatly to the industrial development of the state; (c) Agricultural Products: Main food crops: wheat, rice, jowar, bajra and pulses. Cash crops: cotton, sugarcane, groundnut and tobacco. Alphonso mangoes, Thomson seedless grapes, Cavendish bananas and soft seeded pomegranates are the state's produce.

Transport & Communications: (a) Road Length: 2.66 lakh km. consisting of 3,710 km. of national highways, 33,405 km. of state highways, 47,927 km. of major district roads, and 93,652 km of village roads (as on March 2002); (b) Railway Length: 5,459 km. of railway routes of which about 77.9% is broad gauge, 83% meter gauge and 13.8% is narrow gauge; (c) Main Railway Stations: Bombay is now Mumbai and Victoria Terminus (VT) station Chhatrapati Shivaji Railway Terminus. Bandra, Thane, Vasai, Khurd, Pune, Solapur, Satara, Jalgaon, Bhusaval, Nagpur, Kolhapur, Kudal; (d) Airports: Mumbai. There are four airports under the control of International Airport Authority or Airport Authority of India and 3 under the Ministry of Defence. (e) Ports: Mumbai.

Education: (a) Schools 83552; (b) Colleges: 1733; (c) Universities 52

Employment ('99-00) 34,979,000; Unemployment ('99-00) 7.16%

Famous Forts: Pratapgadh, Daulatabad, Shivneri, Vijaydurg, Sindhudurg, Janjira

Culture: (a) Dances: Tamasha (folk dram) (a), (b) Festivals: Ganesh

(c) Craft: Paithani, Chandrakala, Pasodi, Ghongodi, Dharwadi and brocade sarees, silk-bordered dhoties, himru and bidri work, terracotta pottery, copper and zinc vessels, etc.

Manipur

Date of Formation: 21 Jan 1972 State; 15 Oct., 1949 State (from 1950: Part C); 1 Nov 1956 Union Territory.

Area: 22,327 sq km

Capital: Imphal

Neighbouring States: Mizoram, Assam, Nagaland, Myanmar (country)

Population: 2,166,788; Males: 1,095,634; Females: 1,071,154; Urban Population: 23.88%; (a) Population Density: 111; (b) Sex Ratio: 978

Literacy: 70.5%; Males: 80.3; Females: 60.5.

No. of Districts: 9

District	Area (sq km)	Population (2001)	Head- quarters
Bishnupur	496	2,05,907	Bishnupur
Chandel	3,313	1,22,714	Chandel
Churachandpur	4,570	2,28,707	
Imphal East	709	3,93,780	Porompat
Imphal West	519	4,39,532	Lamphelpat
Senapati	3,271	3,79,214	Senapati
Tamenglong	4,391	1,11,493	Tamenglong
Thoubal	514	3,66,341	Thoubal
Ukhrul	4,544	1,40,946	Ukhrul

Villages: 2,391; **Towns:** 33

Governor: Dr. Shivinder Singh Sidhu

CM: Okram Ibobi Singh

Legislative Bodies: State Legislature: Unicameral- Seats: 60; Lok Sabha Seats: 2; Rajya Sabha Seats: 1

Main Political Parties: INC, Federal Party of Manipur, Manipur State Congress Party, CPI, BJP, NCP, Samata Party, Manipur People's Party, Manipur National Conference, Democratic Revolutionary Peoples Party...

Seat of High Court: A permanent bench of the Guwahati High Court, Imphal Bench (functional since 14-3-1992)

Chief Languages: Manipuri

Major Religions: Hinduism, Christianity.

Main Towns: Imphal, Thoubal, Churachandpur, Ukhrul, Bishnupur, Senapati, Tamenglong, Chandel.

Geography: (a) Rivers: Barak, Manipur; (b) Mountains: West Manipur Hills, Laimatol Range, Letha Range, East Manipur Hills; (d) Lake: Loktak.

Economy: (a) Minerals: Limestone; (b) Industries: Handloom weaving, cottage industries like sericulture, bamboo and cane articles, rice mills, edible oil crushing and leather goods; (c) Agricultural Products: Paddy, wheat, maize.

Transport & Communications: (a) Road Length: 7,599 km NH. 53, 39; (b) Main Railway Stations: Jiribam; (d) Airports: Imphal

Education: (a) Schools: 4033; (b) Colleges: 63; (c) Universities: 2

Culture: Manipuri dancing is one of the classical dances of India. Male dancers perform acrobatics and the graceful movements of female dancers are delightful.

(a) Dances: Manipuri; (b) Festivals: Dol jatra, Lai Haraoba, Rasa Leela, Chei-raoba, Ningol Chakouba, Imoinu Irtapa, Gaan-Nagai, Lui-Nagai-ni, Yaoshang (Holi), Mera Houcho-ngba, Kut, Id-ul-Fitr, Christmas.

(c) The favourite sport is polo and Manipur claims to have invented it. Polo is also popular in few other places in Asia.

Meghalaya

Date of Formation: 2 Apr 1970 State within Assam; 21 Jan 1972 Separate state

Area: 22,429 sq km

Capital: Shillong

Neighbouring States: Assam, Bangladesh (country)

Population: 2,318,822; Males: 1,176,087; Females: 1,142,735; Urban Population: 19.63%; (a) Population Density: 103; (b) Sex Ratio: 975

Literacy: 62.6%; Males: 65.4; Females: 59.6.

No. of Districts: 7

District	Area (sq km)	Population (2001)	Head- quarters
East Garo Hills	2,603	2,47,555	Williamnagar
East Khasi Hills	2,748	6,60,994	Shillong
Jaintia Hills	3,819	2,95,692	Jowai
Ri-Bhoi *	2,448	1,92,795	Nongpoh
South Garo Hills *	1,887	99,105	Baghmara
West Garo Hills	3,677	5,15,813	Tura
West Khasi Hills	5,247	2,94,115	Nongstoin

* created in June 1992.

Villages: 6,026; **Towns:** 16

Governor: M.M. Jacob

CM: J.D. Rymbai

Legislative Bodies: State Legislature: Unicameral -Seats: 60; Lok Sabha Seats: 2; Rajya Sabha Seats: 1

Main Political Parties: INC, NCP, United Democratic Party, Meghalaya Democratic Party, BJP, Hill State People's Democratic Party, Khun, Hyneutrip National Awakening Movement...

Seat of High Court: Guwahati. A High Court Bench is located at Shillong.

Chief Languages: Khasi, Garo and English.

Major Religions: Hinduism, Christianity

Main Towns: Shillong, Tura, Williamnagar, Nongpoh, Nongstoin, Jowai, Baghmara, Mawphlang

Geography: (a) Rivers: Simsang, Manda, Darming, Ringge, Gamol, Bugi, (Khri, Krishnai, Kapili, Sareswari, Bhogai); (b) Mountains: Garo Hills, Khasi Hills, Jaintia Hills; Nokrek Peak.

Economy: (a) Minerals: Sillimanite, Coal, limestone, dolomite, fireclay, feldspar, quartz, glass sand, sandstone; (b) Industries: Cement; Industrial units are fast coming up. There is a public sector cement factory at Cherrapunjee. Meghalaya's hydro-electric and thermal power potential has been estimated at about 2500 and 1000 megawatts respectively; (c) Agricultural Products: Rice

and Maize are the major food crops. Potato, tezpata, sugarcane, oilseeds, cotton, jute, mesta, arecanut besides fruits like pineapple, orange, and bananas are the important products. 'Khasi Mandarin' oranges are famous. Area under forest is 950,000 hectares.

Transport & Communications: (a) Road Length: 7,860 km of both surfaced and unsurfaced roads; (b) Railway: None; (c) Airports: Umroi, 35km from Shillong

Some of the important Places of interest are: Ward's Lake, Lady Hydary Park, Bishop Beadon Falls, Elephant Falls, Uniam Lake, Kyllang Rock, Nohngithiang falls at Mawsmi, and the monoliths of Nartiang.

Education: (a) Schools: 7531; (b) Colleges: 46; (c) Universities: 1

Culture: (a) Dances: Nongkrem at Smit village; Laho (Jaintias); (b) Festivals: Shad Suk Mynsiem - April 2nd week (Khasis); Wangala Oct-Nov (Garo); Behdiengkhlam at Jowai - July (Jaintias).

Mizoram

Date of Formation: 20 Feb 1987

Area: 21,081 sq km

Capital: Aizawl

Neighbouring States: Tripura, Assam, Manipur, Myanmar (country)

Population: 888,573; Males: 459,109; Females: 429,464; Urban Population: 49.50%; (a) Population Density: 42; (b) Sex Ratio: 938

Literacy: 88.8%; Males: 90.7; Females: 86.7

No. of Districts: 8

District	Area (sq km)	Population (2001)	Head- quarters
Aizawl	3,576	3,39,812	Aizawl
Champhai	3,186	1,01,387	Champhai
Kolasib	1,283	60,777	Kolasib
Lunglei	2,557	73,050	Lunglei
Lunglei	4,533	1,37,155	Lunglei
Mamit	3,026	62,111	Mamit

Chhimtuipei	1,400	60,823	Saiha
Serchhip	1,422	55,539	Serchhip

Villages: 817; **Towns:** 22

Governor: Lt. Gen. (Retd.) M.M. Lakhera

CM: Zoramthanga

Legislative Bodies: State Legislature: Unicameral -Seats: 40 members; Lok Sabha Seats: 1; Rajya Sabha Seats:1

Main Political Parties: Mizo National Front, INC, Mizoram People's Conference, Zoram Nationalist Party, Hmar Peoples Convention, Maraland Democratic Front...

Seat of High Court: Guwahati. A bench at Aizawl.

Chief Languages: Mizo and English

Major Religions: Christianity

Main Towns: Aizawl, Mamit, Lunglei, Lawngtlai, Saiha, Champhai

Geography: (a) Rivers: Tlawng (or the Dhaleswari), the Sonai and the Tuivawl; (b) Mountains: Mizoram is a land of hills, the highest point being the Blue Mountain (2165 metres).

Economy: (a) Industries: Handloom, rice mills, flour mills, brick making, bamboo handicrafts, sericulture, electronics; (b) Agricultural Products: Maize and paddy. Pulses, sugarcane, chilly, ginger, turmeric, potato, tobacco, vegetables, banana and pineapple are the other important crops.

Transport & Communications: (a) Road Length: 4001.53 km; (b) Main Railway Stations: Bairabi; (c) Airports: Aizawl, Lunglei

Places of Interest Tam Dil - natural Lake, Vantawng Falls, Zotlang, Lunglei. Thenzawl hill station, Champhai resort, and Saitual resort, Dingdi Art gallery.

Education: (a) Schools: 2489; (b) Colleges: 29; (c) Universities: 1

Culture: (a) Dances: Bamboo dances, Khantum Solokia, Kuallam, Cheraw Kan, Chheiraw and lam. Chheihlam (recounts heroics around rice beer) and Khuallam (a dance of guests); (b) Festivals: Chapchar Kut, Mim Kut (maize fest-Aug-Sept), Pawl Kut (harvest-

Dec-Jan), Christmas, Easter; (c) Crafts: Puns woven on traditional looms, thi-hi (amber bead necklace), Dar-hi (glass bead necklace), shawls, cane and bamboo work, Lunglei, Chintapai, Vakiria (headgear).

Nagaland

Date of Formation: 1st Dec. 1963

Area: 16,579 sq km

Capital: Kohima

Neighbouring States: Manipur, Arunachal Pradesh, Assam, Myanmar (country).

Population: 1,990,036; Males: 1,047,141; Females: 942,895; Urban Population: 17.74%; (a) Population Density: 120; (b) Sex Ratio: 909

Literacy: 66.6%; Males: 71.2; Females: 61.5.

No. of Districts: 8

District	Area (sq km)	Population (2001)	Headquarters
Dimapur	927	3,08,382	Dimapur
Kohima	3,144	3,14,366	Kohima
Phek	2,026	1,48,246	Phek
Mokokchung	1,615	2,27,320	Mokokchung
Mon	1,876	2,59,604	Mon
Tuensang	4,228	4,14,801	Tuensang
Wokha	1,628	1,61,098	Wokha
Zunheboto	1,255	1,54,909	Zunheboto

Villages: 1,317; **Towns:** 9

Governor: Shyamal Dutta

CM: Neiphiu Rio

Legislative Bodies: State Legislature: Unicameral -Seats: 60; Lok Sabha Seats: 1; Rajya Sabha Seats: 1

Main Political Parties: INC, Nagaland Peoples Front, BJP, Nationalist Democratic Movement, JD-U, Samta Party, ...

Seat of High Court: Guwahati High Court. A bench is located at Kohima.

Chief Languages: Angami, Ao, Chang, Konyak, Lotha, Sangtam, Sema and Chakhesang

Major Religions: Hinduism, Christianity

Main Towns: Kohima, Phek, Mon, Wokha,

Mokokchung, Tuensang, Zunheboto

Geography: (a) Rivers: Dhansiri, Doyang, Dikhu and Jhanji; (b) Mountains: Saramati, the highest peak, is 3841 m high (c) National Park: Intangki, known for the Blythe Tragopan, very colourful cock, found only at Phek.

Economy: (a) Minerals: Nagaland's mineral wealth (coal, limestone, iron, nickel, cobalt, chromium and marble) is immense, though unexplored yet; (b) Industries: Nagas make beautiful decorative materials. Nagaland has achieved remarkable progress in small and medium industries. Today the state has 30 industrial units, and over 300 small-scale industries. The Nagaland Sugar Mill at Dimapur has an installed capacity of 1,000 tonnes per day; (c) Agricultural Products: Rice, vegetable.

Transport & Communications: (a) Road Length: 9,860 km; (b) Main Railway Stations: Dimapur; (c) Airports: Dimapur

Education: * (a) Schools: 2058; (b) Colleges: 37; (c) Universities: 1

Culture: (a) Dances: Naga dance and music are intrinsic part of Naga life mostly eulogising bravery, beauty, love and generosity; (b) Festivals: Hornbill festival (1st week of Dec); Sekrenyi of Angamis (Touphema-Kohima, Feb 26-27); Monyu (Pongo-Longleng, Apr 1-3); Moatsu (Chuchuyi-mlang-Mokokchung, May 1-3); Tokhu Emong, Tuluni - of Semas and Christmas. Aoling festival of Konyaks, Pikhuchak festival of Lothas in Wokha; (c) Crafts: wood carving, hand woven shawl, baskets like Akhi, Akha, Chakhe-sang, Angami jewellery.

Capital: Bhubaneswar

Neighbouring States: Andhra Pradesh, Chhattisgarh, Jharkhand, West Bengal, Bay of Bengal (sea)

Population: 36,804,660; Males 18,660,570; Females: 18,144,090; Urban Population: 14.97%; (a) Population Density 236; (b) Sex Ratio: 972

Literacy: 63.1%; Males: 75.3; Females: 50.5.

No. of Districts: 30

District	Area (sq km)	Population (2001)	Head quarter
Angul	6,347	11,39,341	Angul
Bolangir	6,552	13,35,760	Balangir
Balasore	3,706	20,23,056	Balasore
Bargarh	5,832	13,45,601	Bargarh
Bhadrak	2,788	13,32,249	Bhadrak
Boudh	4,289	3,73,038	Boudh
Cuttack	3,915	23,40,686	Cuttack
Deogarh	2,781	2,74,095	Deogarh
Dhenkanal	4,597	10,65,983	Dhenkanal
Gajapati	3,056	5,18,448	Gajapati
Paralakhemundi			
Ganjam	8,033	31,36,937	Chhatrapur
Jagatsinghpur	1,759	10,56,556	Jagatsinghpur
Jajpur	2,885	16,22,868	Panikola
Jharsuguda	2,202	5,09,056	Jharsuguda
Kalahandi	8,197	13,34,372	Bhavanipatna
Kandhamal	6,004	6,47,912	Phulbani
Kendrapara	2,546	13,01,856	Kendrapara
Keonjhar	8,336	15,61,521	Keonjhar
Khurda	2,888	18,74,405	Khurda
Koraput	8,534	11,77,954	Koraput
Malkangiri	6,115	4,80,232	Malkangiri
Mayurbhanj	10,410	22,21,782	Bargarh
Nawarangpur	5,135	10,18,171	Nawarangpur
Nayagarh	3,954	8,63,934	Nayagarh
Nawapara	3,408	5,30,524	Nawapara
Puri	3,055	14,98,604	Puri
Rayagada	7,585	8,23,019	Rayagada
Sambalpur	7,112	9,28,883	Sambalpur
Sonepur	2,284	5,40,659	Sonepur
Sundargarh	5,442	18,29,412	Sundargarh

Villages: 51,349 **Towns:** 133

Governor: Rameshwar Tripathi

CM: Naveen Pattnaik

Legislative Bodies: 100

Administration: Unicameral

Seats: 21 **Party Seats:** 10

Main Political Parties:

Orissa

Date of Formation: 15 Aug 1947 Province

Area: 155,707 sq km

Dal, INC, BJP, Jharkhand Mukti Morcha, Orissa Gana Parishad, CPI, CPI-M

Seat of High Court: Cuttack

Chief Languages: Oriya

Major Religions: Hinduism, Jainism, Islam

Main Towns: Bhubaneswar, Cuttack, Chhatrapur, Puri, Sambalpur, Balangir, Jharsuguda, Baragarh, Bhawanipatna, Koraput, Rourkela, Baleswar, Bhadrak, Nabrangpur, Rayagada, Berhampur, Balangir, Phulbani, Dhenkanal, Kendrapara

Geography: (a) Rivers: Mahanadi, Brahmani, Baitarani, Tel, Pushikulya, Sabari; (b) Mountains: Garhjat Hills, Mahendra Giri; (d) Lake/Reservoir: Hirakud, Balimela, Chilka (The biggest and the most famous lake in Orissa is the Chilka lake. It is 64 km long and 16 to 20 km wide. There are two beautiful islands in the lake namely Parikud and Malud). Hirakud Dam, the fourth largest in the world, on Mahanadi is another attraction. Chilka, the largest brackish water inland lake in Asia, stretches over an area of 1100 sq.km. (d) National Parks: The largest Lion Safari of India, and the only White Tiger Safari in the world, are located on the outskirts of Bhubaneswar.

Economy: (a) Minerals: Chromite, bauxite, dolomite, graphite, iron-ore, coal, copper, kaolin, lead, quartzite, steatite and tin; (b) Industries: The Central Sector Projects are: Steel Plant at Rourkela, SAND Complex at Chhatrapur, Heavy Water Project at Talcher, Coach Repairing Workshop at Mancheswar, Aluminium Complex at Koraput, Captive Power plant at Angul, Aluminium Smelter at Angul and Fertilizer Plant at Paradeep. Major thermal and hydel power stations are Talcher, Hirakud and Chiplima. Other power projects are Upper Indravati, Upper Kolab, Rengali and Ib. Centre has cleared a 10,000 MW power project at Hirma, Orissa to be commissioned by 2008; c) Agricultural Products: 64% of the working population is dependent

on agriculture. Rice, pulses, oil-seeds, jute mesta, sugarcane (the main cash crop), coconut and turmeric are important crops. The state contributes one-tenth of the rice production in India.

Transport & Communications: (a) Road Length: 3194km NH; 30 km state express highways; 5014 km SH; (b) Railway Length in 2003 was 2,311 km - broad-gauge and 90 km narrow-gauge lines; (c) Main Rail-way Stations: Bhubaneswar, Puri, Cuttack, Brahmapur, Balangir, Raurkela, Sambalpur; (d) Airports: Bhubaneswar. There are 13 airstrips and 16 helipads in the state; (e) Ports: Paradeep (major) and Gopalpur (all-weather)

Education: (a) Schools: 55583; (b) Colleges: 618; (c) Universities: 9

Employment ('99-00): 11,928,000; Unemployment ('99-00): 7.34%.

Culture: (a) Dances: Odissi, the dance form of Orissa, evolved in the shadow of the magnificent temples of the state. Dalkhai (tribal dance), Ghoomra, Ranapa and Chhachhaya (folk dance); (b) Festivals: Rath Yatra (Puri), Shraban Purnima, Ashokastami, Chandan Yatra, Snana Yatra and Konark festival; (c) Handloom products of silk and tussar, silver filigree work (tarkashi), Pat chitra paintings, golden glass work.

Punjab

Date of Formation: 15 Aug 1947 Province; 26 Jan 1950 State (until 1956: part (A))

Area: 50,362 sq km

Capital: Chandigarh

Neighbouring States: Jammu & Kashmir, Himachal Pradesh, Haryana, Rajasthan, Pakistan (country)

Population: 24,358,999; Males: 12,985,045; Females: 11,373,954; Urban Population: 33.95%; (a) Population Density: 484; (b) Sex Ratio: 874

Literacy: 69.7%; Males: 75.2; Females: 64.4.

No. of Districts: 17

District	Area (sq km)	Population (2001)	Headquarters
Amritsar	5,075	30,74,207	Amritsar
Bathinda	3,377	11,81,236	Bathinda
Faridkot	1,472	5,52,466	Faridkot
Fatehgarh Sahib	1,180	5,39,751	Fatehgarh Sahib
Ferozepur	5,865	17,44,753	Ferozepur
Gurdaspur	3,570	20,96,889	Gurdaspur
Hoshiarpur	3,310	14,78,045	Hoshiarpur
Jalandhar	2,658	19,53,508	Jalandhar
Kapurthala	1,646	7,52,287	Kapurthala
Ludhiana	3,744	30,30,352	Ludhiana
Mansa	2,174	6,88,630	Mansa
Moga	1,672	8,86,313	Moga
Muktsar	2,596	7,76,702	Muktsar
Nawanshahr	1,258	5,86,637	Nawanshahr
Patiala	3,627	18,39,056	Patiala
Rupnagar	2,117	11,10,000	Rupnagar
Sangrur	5,021	19,98,464	Sangrur

Villages: 12,673; **Towns:** 157

Governor: Gen. (Retd.) S.F. Rodrigues

CM: Capt. Amarinder Singh

Legislative Bodies: Legislature Unicameral

Seats: 117; Lok Sabha Seats: 13; Rajya Sabha Seats: 7

Main Political Parties: INC, Shiromani Akali Dal (Badal), BJP, CPI...

Seat of High Court: Chandigarh

Chief Languages: Punjabi

Major Religions: Sikh, Hinduism, Christianity

Main Towns: Ludhiana, Amritsar, Bathinda, Jalandhar, Patiala, Moga, Ambala, Gurdaspur

Geography: (a) Rivers: Beas, Sutluji, Ravi; (b) Mountains: Katar Dhar (Shivalik Range), Hoshiarpur Choaland, Chandigarh Choaland; (c) Plain Malwa, Sirhind, Manjha.

Economy: (a) Industries: The chief manufactures are textiles, sewing machines, sports goods, sugar, starch, fertilizers, bicycles, scientific instruments, electrical goods, machine tools and pine oil. A Science City is being set up in Jalandhar; (b) Agricultural Products: Wheat,

rice, maize, bajra, jowar, barley, oilseeds, sugarcane, potato, cotton, pulses, tobacco.

Transport & Communications: (a) Road Length: 48,543 km; (b) Railway Length: 3726.06 km; (c) Main Railway Stations: Ambala, Patiala, Jalandhar, Amritsar, Bhatinda; (d) Airports: An international airport at Rajasansi (Amritsar), Chandigarh, Bathinda, and Ludhiana.

Education: (a) Schools: 20037; (b) Colleges: 293; (c) Universities: 8

Employment ('99-00): 8,013,000; Unemployment ('99-00): 4.03%.

Culture: (a) Dances: Bhangra, Gidda and Thumar, (b) Festivals: Gurpurab, Lohri, Dussehra, Diwali, Holi, Hola Mohalla (Anandpur Sahib), Rauza Sharif Urs (Sirhind), Baisakhi (Talwandi Saboo), Chappar Mela, Sheikh Farid Agam Purb (Faridkot), Shaheedi Jor Mela (Sirhind), Harballah Sangeet Sammelan (Jalandhar); (c) Crafts: Pulkari embroidery on bed sheets, durries, shawls, jerseys.

Rajasthan

Date of Formation: 1 Nov 1956 Rajasthan (-full statehood); 25 Mar 1948 Rajasthan Union; 18 Apr 1948 United States of Rajasthan; 30 Apr 1949 United States of Greater Rajasthan (from 1950: Part (B))

Area: 3,42,239 sq km

Capital: Jaipur

Neighbouring States: Gujarat, Madhya Pradesh, Delhi, Haryana, Punjab, Pakistan, Uttar Pradesh

Population: 56,507,188 (2001) Males: 29,420,011; Females: 27,087,177 Urban Population: 23.38% (a) Population Density: 165; (b) Sex Ratio: 922

Literacy: 60.4% Males: 77.7% Females: 43.9.

No. of Districts: 22

District	Area (sq km)	Population (2001)	Headquarters
Alwar	8,451	21,80,526	Alwar
Banswara	8,587	22,40,562	Banswara

Banswara	5,037	15,00,420	Banswara
Baran	6,955	10,22,568	Baran
Barmer	28,387	19,63,758	Barmer
Bharatpur	5,066	20,98,323	Bharatpur
Bhilwara	10,455	20,09,516	Bhilwara
Bikaner	27,244	16,73,562	Bikaner
Bundi	5,550	9,61,269	Bundi
Chittorgarh	10,856	18,02,656	Chittorgarh
Churu	16,830	19,22,908	Churu
Dausa	2,950	13,16,790	Dausa
Dholpur	3,034	9,82,815	Dholpur
Dungarpur	3,770	11,07,037	Dungarpur
Ganganagar	7,944	17,88,487	Ganganagar
Hanumangarh	12,690	15,17,390	Hanumangarh
Jaipur	11,588	52,52,388	Jaipur
Jaisalmer	38,401	5,07,999	Jaisalmer
Jalore	10,640	14,48,486	Jalore
Jhalawar	6,219	11,80,342	Jhalawar
Jhunjhunu	5,928	19,13,099	Jhunjhunu
Jodhpur	22,850	28,80,777	Jodhpur
Karoli	5,014	12,05,631	Karoli
Kota	5,481	15,68,580	Kota
Nagaur	17,718	27,73,894	Nagaur
Pali	12,387	18,19,201	Pali
Rajsamand	4,768	9,86,269	Rajsamand
S. Madhopur	5,043	11,16,031	S. Madhopur
Sikar	7,732	22,87,229	Sikar
Sirohi	5,136	8,50,756	Sirohi
Tonk	7,194	12,11,343	Tonk
Udaipur	12,511	26,32,210	Udaipur

Villages: 41,353; **Towns:** 222

Governor: Smt. Pratibha Patil

CM: Smt. Vasundhara Raje

Legislative Bodies: State Legislature: Unicameral -200; Lok Sabha Seats: 25; Rajya Sabha Seats: 10

Main Political Parties: BJP, INC, Indian National Lok Dal, BSP, JD-U, CPI-M, Lok Jan Shakti Party, Rajasthan Samajik Nyaya Manch...

Seat of High Court: Jodhpur and a bench at Jaipur.

Chief Languages: Rajasthani, Hindi

Major Religions: Hinduism, Jainism, Islam

Main Towns: Jaipur, Kota, Tonk, Jodhpur, Bikaner, Gandhinagar, Pali, Nagaur, Udai-pur, Bhilwara, Sikar, Alwar, Sawai Madhopur, Baran, Ajmer, Chittorgarh

Geography:(a) Desert: Great Indian

Desert (The Thar); (b) Rivers: Luni, Banas, Kali Sindh, Chambal, Indira Gandhi Nahar (Canal); (c) Mountains: Aravalli Range (Guru Shikhar Peak, 1722m), Alwar Hills, Soja Hills, Mewar Hills, Mukandwara; (d) Lakes: Reservoirs Sambhar Salt Lake, Gudha, Ran Pratap Sagar, Gandhi Sagar, Dhebar Lake, Mandor (e) Wildlife Sariska Tiger Park-Alwar Keoladeo Ghana National Park.

Economy: (a) Minerals: zinc concentrates, emerald, garnet, gypsum, silver ore, asbestos, felspar, mica, rock phosphate, marble and red stone; (b) Industries: Textiles, rug and woollen goods, sugar, cement, glass, sodium, oxygen and acetylene units, pesticides, insecticides and dyes are some of the major industries. Other enterprises include the manufacture of caustic soda, calcium carbide and ny-lon tyre cord and copper smelting. Marble work, woollen carpets, jewellery, embroidery, articles of leather, pottery and brass embossing. Rajasthan handicrafts are famous all over the world; (c) Agricultural Products: The principal crops are jowar, bajra, maize, wheat, grams, oil seeds, cotton, sugarcane and tobacco.

Transport & Communications: (a) Road Length: 1,53,734 km; (b) Railway Length 6228 km; (c) Main Railway Stations: Jaipur, Jodhpur, Marwar, Kota, Alwar, Sawai Madho-pur; (d) Airports: Jaipur, Jodhpur

Education: (a) Schools: 64665; (b) Colleges: 410; (c) Universities: 15

Employment ('99-00): 19,930,000; Unemployment ('99-00): 3.13%.

Culture: (a) Dances: Khayal (dance-music), Ghumar during Teej and Gangaur festivals, Panihari, Chari, Kachchi Ghor; (b) Festivals: Deepawali, Vijayadashami, Holi, Teej, Gan-gaur (Jaipur), Urs of Ajmer Sherif and Gallia-kot, Christmas; (c) Fairs: tribal Kumbh of Bene-shwar (Dungarpur), Ramdeora (Jaisalmer), Mahavir fair at Shri Mahavirji in Sawai Madho-pur, Janbeshwari Fair (Mukandwara), Kartik Poornima and Cattle Fair

(Pushkar-Ajmer) and Shyamji Fair (Sikar); (d) Craft: Bandhini (tie and dye) work, block printing, hand-knotted woollen carpets, massoria work, gharas kagzi pottery, pichwais (painting on cloth), phads (cloth scroll painting), lacquer-works.

Sikkim

Date of Formation: 16 May 1975 State

Area: 7,096 sq km

Capital: Gangtok

Neighbouring States: West Bengal, China-Nepal-Bhutan (countries)

Population: 540,851; Males: 288,484; Females: 252,367; Urban Population: 11.10%; (a) Population Density: 76; (b) Sex Ratio: 875

Literacy: 68.8%; Males: 76.0; Females: 60.4.

No. of Districts: 4

District	Area (sq km)	Population (2001)	Head- quarters
East	954	1,78,452	Gangtok
North	4,226	31,240	Mangan
South	750	98,604	Namchi
West	1,166	98,161	Gyalshing

Villages: 452; **Towns:** 9

Governor: V. Rama Rao

CM: Pawan Chamling

Legislative Bodies: State Legislature: Unicameral -Seats: 32; Lok Sabha Seats: 1; Rajya Sabha Seats: 1

Main Political Parties: Sikkim Democratic Front, INC.

Seat of High Court: Gangtok

Chief Languages: Lepcha, Bhutia, Hindi, Nepali and Limbu

Major Religions: Buddhism, Hinduism.

Main Towns: Gangtok, Namchi, Gyalshing, Mangan, Jelep La, Pemayangtse, Lachen, Yunthang

Geography: (a) Rivers: Teesta, Rangit; (b) Mountains: Kanchenjunga-the highest peak in India is situated here. (c) Khangchendzonga National Park is one of the

highest national parks in the world and includes the world's third highest mountain (Kanchenjunga). Deorali is another National Park. The yak and the musk deer are animals found in Sikkim. There are over 4000 species of plants.

Economy: (a) Minerals: Gold, silver, copper, zinc; (b) Industries: There are units engaged in food processing, tanning, watch assembling and distilleries, breweries and flour mills; (c) Agricultural Products: The principal crops are maize, paddy, millet, wheat and barley. Orange, potatoes, apples and cardamom are also produced. Sikkim has the largest area and the highest production of large cardamom in India. Tea is grown in Sikkim.

Sikkim is very rich in varieties of orchids.

Transport & Communications: (a) Road Length: 2383 km; (b) Main Railway Stations: No stations but the closest ones are Siliguri (114 km) and Jalpaiguri (125 km); (c) Airports: Gangtok.

Education: (a) Schools: 764; (b) Colleges: 5; (c) Universities: 2

Culture: (a) Dances: Mask dances of Bhutias, Nepalis and Lepchas are famous; (b) Festivals: Maghey Sankranti, Durga Puja, Chaite Dasai (Nepali), Pang Lhabso and Losar (Bhutias), Namsoong and Tendong Hlo Rum Faat (Lepchas); (c) Crafts: Woollen carpets, with Tibetan designs, rough blankets, saris, cane and bamboo works, wood carving, handmade paper and silver work.

Tamil Nadu

Date of Formation: 15 Aug 1947 Madras province; 26 Jan, 1950 State until 1956 Part (A); 14 Jan, 1969 Renamed Tamil Nadu

Area: 1,30,058 sq km

Capital: Chennai

Neighbouring States: Kerala, Karnataka, Andhra Pradesh, Pondichery, Bay of Bengal, Indian Ocean

Population: 62,405,679; Males: 31,400,909; Females: 31,004,770; Urban Population: 43.86%; (a) Population Density: 480; (b) Sex Ratio: 986

Literacy: 73.5%; Males: 82.4; Females: 64.4.

No. of Districts: 30

District	Area (sq. km)	Population (2001)	Head- quarters
Ariyalur	1,937	694,058	Ariyalur
Chennai	174	42,16,268	Chennai
Coimbatore	7,469	42,24,107	Coimbatore
Cuddalore	3,678	22,80,530	Cuddalore
Dharmapuri	9,622	28,33,252	Dharmapuri
Dindigul	6,058	19,18,960	Dindigul
Erode	8,209	25,74,067	Erode
Kancheepuram	4,433	28,69,920	Kancheepuram
Kanyakumari	1,685	16,69,763	Nagercoil
Karur	11,096*	9,33,791	Karur
Madurai	6,565	25,62,279	Madurai
Nagapattinam	2,716	14,87,055	Nagapattinam
Namakkal	3,429	14,95,661	Namakkal
Nilgiris	2,549	7,64,826	(Ooty) Udagamandalam
Perambaloor	3,691	11,81,029	Perambaloor
Pudukkottai	4,651	14,52,269	Pudukkottai
Ramana- thapuram	4,232	11,83,321	Ramana- thapuram
Salem	5,220	29,92,754	Salem
Sivagangai	4,086	11,50,753	Sivagangai
Thanjavur	3,397	22,05,375	Thanjavur
Theni	2,889	10,94,724	Theni
Thiruvann- amalai	6,191	21,81,853	Thiruvann- amalai
Thiruvarur	2,161	11,65,213	Thiruvarur
Tirunelveli	6,810	28,01,194	Tirunelveli
Tiruvallur	3,424	27,38,866	Tiruvallur
Trichirappalli	5,114	23,88,831	Trichirappalli
Tuticorin	4,621	15,65,743	Tuticorin
Vellore	6,077	34,82,970	Vellore
Viluppuram	7,217	29,43,917	Viluppuram
Virudhunagar	4,288	17,51,548	Virudhunagar

Villages: 16,317; **Towns:** 832

Governor: Surjit Singh Barnala

CM: M Karunanidhi

Legislative Bodies: State Legislature:

Unicameral-Seats: 234; Lok Sabha Seats: 39;

Rajya Sabha Seats: 18

Main Political Parties: All India Dravida

Munetra Kazhagam, Dravida Munetra

Kazhagam, Tamil Manila Congress

(Moopanar), Pattali Makkal Katchi, INC, CPI-M, CPI, BJP, MGR Anna DMK, All India Forward Bloc...

Seat of High Court: Chennai

Chief Languages: Tamil

Major Religions: Hinduism, Islam, Christianity.

Main Towns: Chennai, Coimbatore, Madurai, Vellore, Salem, Tanjavur, Cuddalore, Tutucorin, Tirunelveli, Udagamandalam, Nagercoil.

Geography: (a) Rivers: Palar, Kaveri, Vaigai, Cheyyar, Ponniyar, Meyar, Bhavani, Tamarapani, Chittar, Vellar, Noyal, Suruli, Vaipar, etc.; (b) Mountains: Along the whole length of the western part, is the range of the Western Ghats. The Palghat Gap about 25 km in width is the only marked break in the great mountain wall. To the south of this Palaghat Gap, the range is known as Anamalai (Elephant Hills).

On the east are the Palani Hills on which is situated the famous hill station Kodaikanal. In the famous Ootacamund area of the Nilgiris District, is the highest peak Doddabetta, 2640 metres above the sea level.

Economy: (a) Minerals: Lignite, limestone, magnesite, mica, quartz, feldspar, bauxite, gypsum; (b) Industries: Cotton textile, automobiles, chemical fertilisers, paper and paper products, railway wagons and coaches, army tank, cement, iron & steel, computer peripherals and software; (c) Agricultural Products: Rice, maize, jowar, bajra, ragi, pulses, sugarcane, oilseed, cotton, chillies, coffee, tea, rubber, cardamom.

Transport & Communications: (a) Road Length: 150,095 km; (b) Railway Length 4181 km; (c) Main Railway Stations: Chennai, Madurai, Tiruchirappalli, Coimbatore and Salem; (d) Airports: Meenambakam International, Chennai; Madurai, Tiruchirappalli, Coimbatore, Salem; (e) Ports: Chennai and Thoo-thukudi (Tuticorin), Cuddalore, Nagapattinam.

Uttaranchal

Date of Formation: 9 November, 2000

Area: 53,483 sq km

Capital: (provisional): Dehradun

Neighbouring States: UP, Himachal Pradesh, countries- China and Nepal:

Population: 8,489,349; Males: 4,325,924; Females: 4,163,425, Urban Population: 25.59%; (a) Population Density: 159; (b) Sex Ratio: 964

Literacy: 71.6%; Males: 83.3; Females: 59.6.

No. of Districts: 13

District	Area (sq km)	Population (2001)	Head-quarters
Almora	3,689	6,30,446	Almora
Bageshwar	1,696	2,49,453	Bageshwar
Chamoli	7,520	3,69,198	Chamoli
Champawat	2,004	2,24,461	Champawat
Dehradun	3,088	12,79,083	Dehradun
Garhwal	5,230	6,96,851	Pauri
Haridwar	2,360	14,44,213	Haridwar
Nainital	3,422	7,62,912	Nainital
Pithoragarh	7,169	4,62,149	Pithoragarh
Rudrapur	2,439	2,27,461	Rudrapur
Tehri Garhwal	3,796	6,04,608	New Tehri
Udhamsingh Nagar	3,055	12,34,548	Rudrapur
Uttarkashi	8,016	2,94,179	Uttarkashi

Villages: 16,826; **Towns:** 86

Governor: Sudershan Agarwal

CM: Narain Dutt Tiwari

Legislative Bodies: State Legislature: Unicameral -Seats: 70; Lok Sabha Seats: 5; Rajya Sabha Seats: 3; Jurisdiction of High Court: Uttaranchal

Main Political Parties: INC, BJP, BSP, Uttara-khand Kranti Dal, NCP...

Seat of High Court: Nainital

Chief Languages: Hindi, Garhwali, Kumaoni

Major Religions: Hinduism, Sikhism

Main Towns: Dehradun, Haridwar and Haldwari-cum-Kathgodam.

Geography: (a) Rivers: Yamuna, Bhagirathi, Ganga, Ramganga, Tons, and Kali; (b) Mountains: Shiwalik range, Great

Himalaya, Garhwal Hills, Kumaon Hills; (c) Peaks: Nanda Devi -7817m, Kamet-7756m, Badrinath-7138m, Dunagiri-7066m, Bandarpunch-63020; (d) Passes: Thaga La, Tsang Chok La, Muling La, Mana Pass, Niti Pass, Darma Pass, Lampiya Dhura Pass, Mangsha Dhura Pass.

(e) Hill Stations: Mussoorie - (Lal Tibba, Gun Hill, Kempty Falls, Lake, Surkunda Devi temple), Dehradun (IFRI, Sahasradhar(a), Chakrata, Nainital & Kumaon (mountain-eering), Ranikhet, Bhim Tal, Naukuchia Tal, Bage-shwar, and Kausani. (f) Six of the seven national parks including Corbett National Park, Rajaji National Park, Nanda Devi National Park, Valley of Flowers, Kedarnath Sanctuary are in Uttaranchal.

Economy: (a) Minerals: limestone, rock phosphate, dolomite, magnesite, copper greiphyte, soapstone, gypsum, etc.; (b) Industries: forest-based, handicraft; (c) Agricultural Products:

Transport & Communications: (a) Road Length: 19,543 km.; (b) Main Railway Stations: Dehradun, Haridwar, Roorkee, Kotdwar, Kashipur, Udhamsingh Nagar, Kathgodam, Haldwani; (c) Airport Jolly Grant (Dehradun). Airstrips: Pantnagar (Udhamsingh Nagar), (Naini-Seni (Pithoragarh), Gauchar (Chamoli) and Chinyalisaur (Uttarkashi) - are being built).

Places of Interest: Pilgrimage: Gangotri, Yamunotri, Char Dham (Badrinath, Ke-darnath, Rudrapur and Chamoli), Joshi-math, Haridwar, Rishikesh, Hemkund Sahib & Nanakmatta. Others: Valley of Flowers, Pindaari Glacier & Milam Glacier (trekking), Roop Kund, Dayara Bugyal, Auli (winter sports), Pithoragarh & Banbassa (rock climbing and trekking), Rishikesh (river rafting).

Education: (a) Schools: 19200; (b) Colleges: 51; (c) Universities: 7

Culture: (a) Dances: folk dances; (b) Festivals: Kumbh Mela / Ardh Kumbh Mela

(Hardwar- every 12th / 6th year interval);
Devidhura Mela (Chamawat), Nanda Devi
Mela (Almor(a), Gauchar Mela (Chamoli),
Baisakhi & Maga Mela (Uttarkashi), Uttaraini
Mela (Bageshwar), Vishu Mela (Jaunsar
Vavar), Peerane-Kaliyar (Roorkee), Nanda
Devi Raj Jat Yatra -every 12th year, and
Puranagiri Mela.

Uttar Pradesh

Date of Formation: 15 Aug 1947 United
province; 26 Jan, 1950, Uttar Pradesh state
(until 1956: Part (A))

Area: 2,38,566 sq km

Capital: Lucknow

Neighbouring States: Uttarakhand,
Himachal Pradesh, Haryana, Delhi, Rajasthan,
Madhya Pradesh, Chhattisgarh, Jharkhand,
Bihar and N

Chitrakoot	3,513	8,00,592	Chitrakoot
Deoria	2,379	27,10,176	Deoria
Etah	4,446	27,88,270	Etah
Etawah	4,326	13,40,011	Etawah
Faizabad	2,015	20,87,914	Faizabad
Farrukhabad	2,288	15,77,237	Farrukhabad
Fatehpur	4,152	23,05,847	Fatehpur
Firozabad	2,361	20,45,737	Firozabad
Gautam Buddha			
Bagar	1,501	11,91,263	Bagar
Ghaziabad	1,988	32,89,540	Ghaziabad
Ghazipur	3,377	30,49,337	Ghazipur
Gonda	3,788	27,65,754	Gonda
Gorakhpur	3,321	37,84,720	Gorakhpur
Hamirpur	4,095	10,42,374	Hamirpur
Hardoi	5,986	33,97,414	Hardoi
Hathras	2,060	13,33,377	Hathras
Jaisin	4,565	14,55,859	Jaisin
Jampur	4,038	39,11,305	Jampur
Jhansi	5,624	17,46,715	Jhansi
Jyotiba Phule Nagar	2,470	14,99,193	Jyotiba Phule Nagar
Kanpur	2,058	15,85,277	Kanpur
Kanpur (District)	3,135	15,84,037	Kanpur (District)
Kanpur (Nagar)	3,615	41,17,469	Kanpur (Nagar)

Governor: T.V. Rajeshwar

CM: Mulayam Singh Yadav

Legislative Bodies: State Legislature: Bicameral - Seats: Legislative Council - 108; Assembly - 355; Lok Sabha Seats: 80; Rajya Sabha Seats: 31

Main Political Parties: Samajwadi Party, BSP, BJP, INC, Rashtriya Lok Dal, Rashtriya Kranti Party, Apna Dal, CPI-M, Akhil Bharatiya Lok Tantrik Congress, JD-U, Akhil Bharat Hindu Mahasabha, Janata Party, Lok Jan Shakti Party, National Loktantrik Party, Samajwadi Janata Party (Rashtriya)...

Seat of High Court: Allahabad and a bench at Lucknow.

Chief Languages: Hindi and Urdu.

Major Religions: Hinduism, Islam.

Main Towns: Lucknow, Allahabad, Kanpur, Varanasi, Gorakhpur, Agra, Jhansi, Saharanpur, Etawah, Meerut, Ghaziabad, Noida, Aligarh, Faizabad.

Geography: (a) Rivers: Ganga, Yamuna, Gomti, Ghagra, Ramganga, Betwa; (b) Mountains: Lower hills of Shiwalik range, Kaimur range; (c) Plains: Gangetic Plain, Rohilkhand Plain, Avadh Plain. (d) Wildlife: Dudhwa Nat. Park, Corbett Nat. Park. Sanctuaries- Kedarnath, Govind and Chilla.

Economy: (a) Minerals: Limestone, magnesite, coal, rock phosphate, dolomite, silica-sand, pyrophyllite; (b) Industries: Edible oils, paper, cement, aluminium, railway equipment, industrial chemicals, Handloom, etc.; (c) Agricultural Products: Wheat, rice, maize, barley, gram, sugarcane, potatoes, pulses and oilseeds.

Transport & Communications: (a) Road Length: 1,03,795 km. NH-3774 km, SH-7392 km, District Rd.-9911; (b) Railway Length; (c) Main Railway Stations: Lucknow (main junction), Agra, Kanpur, Allahabad, Mughalsarai, Jhansi, Moradabad, Varanasi, Tundla, Gorakhpur, Gonda, Faizabad, Bareilly, and Sitapur; (d) Airports: Lucknow, Kanpur, Varanasi, Allahabad, Agra, Jhansi,

Bareilly, Hindon (Gazia-bad), Gorakhpur, Sarsawa, Fursatganj (Rae-Bareilly).

Education: (a) Schools: 153959; Colleges: 957; (c) Universities: 40
Employment ('99-00): 49,387,000; unemployment ('99-00): 4.08%.

Culture: (a) Dances: Kathak; (b) Festivals: Kumbh Mela, Ardh Kumbh, Ka Pooranmasi, Dewa Sharief (place of W. Ali Shah- Bara-banki); (c) Fair: Jhoola fair, dolls (Mathura, Vrindavan Ayodhya), Bateswar cattle fair; (d) Crafts: silk saree, brocade (Banarasi silk), chikankari - hand-stitched design, zardosi work, metalwork, woodcarving, wood work inlaid with brassware on black sheesham, marblework, glasswork, glaze pottery, etc.

West Bengal

Date of Formation: 15 Aug 1947 Province; 26 Jan, 1950 State (until 1956: Part

Area: 88,752 sq km

Capital: Kolkata

Neighbouring States: Orissa, Jharkhand, Bihar, Sikkim, countries-Nepal, Bhutan, Bangladesh; and Bay of Bengal.

Population: 80,176,197; Males: 41,465,985; Females: 38,710,212; Urban Population: 28.03%; (a) Population Density: 903; (b) Sex Ratio: 934

Literacy: 68.6%; Males: 77.0; females: 59.6.

No. of Districts: 18

District	Area (sq km)	Population (2001)	Population per sq km
Bankura	6,882	31,91,822	Bar
Birbhum	4,545	30,12,546	
Bardhaman	7,024	69,19,698	Bardhaman
Kolkata*	185	45,80,544	Ko
Cooch Behar	3,387	24,78,280	Cooch-B
Darjeeling	3,149	16,05,900	Darje
Hooghly	3,149	50,40,047	Chin
Howrah	1,467	42,74,010	Ho
Jalpaiguri	6,227	34,03,204	Jalpi
Malda	3,733	32,90,160	English
Medinipur*	14,081	96,38,473	Medi

Medinipur	5,324	58,63,717	Berhampore
Haldia	3,927	46,03,756	Krishnagar
Purulia	6,259	25,35,233	Purulia
North 24 Parganas	4,094	89,30,295	Barasat
South 24 Parganas	9,660	69,09,015	Alipore
Bankura	3,140	24,41,824	Raigunj
West Medinipur	2,219	15,02,647	Balurghat

Note: * The district Medinipur has been bifurcated on January 1, 2002 into Purba and Paschim Medinipur (the population figures of census 2001 are yet to be incorporated)

Villages: 51,043; **Towns:** 375

Governor: Gopal Krishna Gandhi

CM: Buddhadev Bhattacharaya

Legislative Bodies: State Legislature:

unicameral -Seats: 294; Lok Sabha Seats:

2; Rajya Sabha Seats: 16

Main Political Parties: CPI-M, All India Trinamool Congress, INC, All India Forward Bloc, RSP, CPI, West Bengal Socialist Party, Gorkha National Liberation Front...

Seat of High Court: Kolkata

Chief Languages: Bengali

Major Religions: Hinduism, Islam, Christianity

Main Towns: Kolkata, Kharagpur, Medinipur, Asansol, Murshidabad, Howrah, Bardhaman, Siliguri, Purnia

Geography: (a) Rivers: Bhagirathi, Mayurakshi, Damodar, Kangsabati, Teesta, Torsha, Jaldhaka, Mahananda, Subarnarekha and Rupnarayan; (b) Mountains: Susta Hills, Darjeeling (b) Wildlife: Sundarbans National Park and Tiger Reserve

Economy: (a) Minerals: Coal and China clay are two important minerals being exploited.; (b) Industries: engineering, automobiles, chemicals, pharmaceuticals, aluminium, ceramics, jute, cotton textiles, tea, paper, leather, footwear, bonemeal, bicycle, dairy, poultry and timber-processing. Central public sector undertakings include locomotive, cable, fertiliser, ship-building and ordnance; (c) agricultural Products: Rice, Wheat, pulses, Oilseed, Potato and Jute.

Transport & Communications: (a) Road Length: 79,255 km including 1715

km NH., (Mar. 31, 1999); (b) Railway Length 3,697.25 km.; (c) Main Railway Stations: Howrah, Asansol, Sealdah, Bandel, Bardhaman, Kharagpur, New Jalpaiguri. Calcutta's Metro Rail project, the first of its kind in the country, was commissioned in 1995; (d) Airports: Dum Dum International (Kolkata), Bagdogra, Kalaikunda, Panagarh, Malda, Barrackpore, Behala, Balurghat and Coochbehar; (e) Ports: Kolkata and Haldia

Education: (a) Schools: 59551; (b) Colleges: 442; (c) Universities: 28

Employment ('99-00): 22,656,000; Un-Employment ('99-00): 14.99%.

Culture: West Bengal is known for its textiles; handlooms; Murshidabad and Baluchari silk sarees; Kantha embroidery; cane and bamboo work, leather craft, clay dolls & toys, masks, sholapith works; (a) Dances: Chhau (Purulia), Rabindra Nritya; (b) Festivals: Durga puja is the most important festival along with Kali puja or Diwali. Vasant Pan-chami, Lakshmi puja, Holi, Sivaratri, Janma-shtami, Id-ul-Fitr.

Delhi

Date of Formation: December 1991

Area: 1,483 sq km

Capital: Delhi

Neighbouring States: Haryana, UP.

Population: 13,850,507; Males: 7,607,234; Females: 6,243,273; Urban Population: 93.01%; (a) Population Density: 9,340; (b) Sex Ratio: 821

Literacy: 81.7%; Males: 87.3; Females: 74.7.

No. of Districts: 9

Villages: 165; **Towns:** 62

Lt. Governor: Shri B.L. Joshi

CM: Smt. Sheila Dikshit

Legislative Bodies: Legislature Unicameral -Seats: 70; Lok Sabha Seats: 7; Rajya Sabha Seats 3

Main Political Parties: INC, BJP, NCP, JD-Secular.

Chief Languages: Hindi, Punjabi, Urdu and English.

Major Religions: Hinduism, Islam, Sikhism, Christianity, Jainism

Main Towns: New Delhi, Delhi Cantt, Palam, Mehrauli, Shahdara, Alipur, Badaali, Nazafgarh, Narela.

Geography: Rivers: Yamuna

Economy: (a) Industries: electronics, light engineering machines, automobile parts, sport goods, bicycles, PVC goods, footwears, textiles, fertilisers, medicines, hosiery, leather goods, softwares, etc.; (b) Agricultural Products: wheat, bajra, jowar, gram, maize. Now fruit crops, vegetables, floriculture, dairy and poultry farming are more common.

Transport & Communications: (a) Road Length: Inter-State terminuses: Kasmere Gate, Sarai Kalen Khan and Anand Vihar; (b) Railways Delhi Metro Service is very important connecting important places within the city; (c) Main Railway Stations: Delhi Jn., New Delhi, Hazrat Nizamuddin; (d) Airports: Indira Gandhi International Airport, Domestic flight -Palam and for training Safdarjung.

Tourist Destinations: Purana Qila, Qutub Minar, Tughlaqabad Fort, Lal Quila (Red Fort), Jama Masjid, Humayun's Tomb, Lodi Gardens, Jantar Mantar, India Gate, Rashtrapati Bhavan, Sansad Bhavan, Raj Ghat, Bahai Temple, Birla (Lakshmi Narian) Mandir

National Museum, Nehru Memorial Museum, Craft Museum, National Museum of Natural History, National Museum of Modern Art, Central Cottage Industries Emporium (Janpath), States Emporia (Baba Kharak Singh Marg), Dilli Haat - handicrafts.

Education: (a) Schools: 4391; (b) Colleges: 107; (c) Universities: 16

Culture: (a) Festivals: Roshnara festival, Shalimar festival, Qutab festival, Winter Car-

State	NSDP	PC NSDP
Andhra	136173	17916
Arunachal	1628	14771
Asom	29419	11034
Bihar	45878	5445
Chhattisgarh	24980	11952
Goa	6736	49673
Gujarat	106099	20695
Haryana	53110	24820
HP	13320	21543
J&K	13697	13320
Jharkhand	25273	9392
Karnataka	93383	17518
Kerala	63817	19803
MP	73480	12027
Maharashtra	237112	24248
Manipur	2767	11410
Meghalaya	3529	15070
Mizoram	1777	19696
Nagaland	3864	18911
Orissa	37049	10021
Punjab	61976	25248
Rajasthan	78761	
Sikkim	1039	
TN	126797	
Tripura	5660	
Uttaranchal	11361	
UP	164137	
WB	144389	
NCT: Delhi	61575	
UTs		
A&N Is.	935	
Chandigarh	4520	
D&NH	--	
Daman&Diu	--	
Lakshadweep	--	
Puducherry	3609	

nival, Garden Tourism & Mango festival. Besides International Industrial Exhibitions, Automobile Exhibitions, Defense Exhibitions, etc.

Andaman & Nicobar Is.

Date of Formation: 1 Nov, 1956- Union Territory

Area: 8,249 sq km

Capital: Port Blair

Neighbouring States: Sea

Population: 3,56,265; Males: 192,985; Females: 163,280.

Until the colonisation of India, Andaman Islands were inhabited by 4 Negrito tribes viz., the Great Andamanese, Onge, Jarawa & Sentinalese and 2 Mongoloid tribes viz., Nicobarese and Shompens.

(a) Population Density: 43; (b) Sex Ratio: (females per 1000 males): 846

Literacy: 81.18%; Males: 86.07; Females: 75.29.

No. of Districts: 2

District	Area (sq km)	Population (2001)	Head-quarters
Andaman	6,408	3,14,239	Port Blair
Nicobar	1,841	42,026	Car Nicobar

Area, Sub Divisions, Tehsils

Sub Division	Tehsils in the Sub division	Area sq km
1. Mayabunder	1. Diglipur	884
	2. Mayabunder	1348
	3. Rangat	1098
2. South Andaman	1. Port Blair	3010
	2. Ferrargunj	
3. Car Nicobar	1. Car Nicobar	129
4. Nancowrie	1. Nancowrie	1824

Villages: 547; **Towns:** 3

Lt. Governor: Lt. Gen. (Retd.) M.M. Lakhera

Legislative Bodies: State Legislature: None; Lok Sabha Seats: 1; No. of Rajya Sabha Seats: None

Seat of High Court: Calcutta H.C., circuit bench at Port Blair.

Chief Languages: Bengali, Hindi, Telugu, Tamil & Malayalam; Local dialects: Nicobarese, Nicobarese.

Main Towns: Shyamnagar, Nabagram,

Mayabunder, Uttara, Checkpoint, Herbertahad, Bamboo Flat, Wrightmyo, Port Meadows, Wandoor.

Geography: Mountains: The islands form the peaks of several submerged mountain range that extends for almost 1000km between Myanmar and Sumatra. Saddle Peak (732m), is the highest peak. Rivers: Alexandra, Dagmar, Galathea (Gr. Andamans), Kalpong (N. Andamans)

National Parks: Mahatma Gandhi Marine National Park, Rani Jhansi Marine National Park, Middle Button Island, National Park, Mount Harriet National Park, North Button Island National Park, Saddle Peak National Park, South Button National Park, Campbell Bay National Park, Galathea National Park.

Economy: A total of 48,594 hectares of land is used for agriculture purposes. The principal crops are rice, coconuts and arecanut. Other crops are sugarcane, pulses, fruit and vegetables. Spices and rubber are being tried. Fisheries, tourism and ship repairing are the areas that can create jobs. There are 3 newspapers and 22 periodicals. Schools number 316 in all. The islands have a fleet of 57 ships. The installed capacity of power generation is 30,000 kw, with all revenue villages electrified; (a) Industries: There are 1421 registered small scale village units viz., fish processing factory, soft drinks, beverages, PVC conduit pipes, paints, furniture, etc., and handicraft units, (b) Agricultural Products: Rice, pulses, coconut, arecanut, coffee, sugarcane

Transport & Communications: (a) The islands are accessible by air and sea. It is connected to Kolkata, Chennai by air and by sea to Kolkata, Chennai and Vishakhapatnam. The UT's transport system serves 9 major roads from Diglipur to Campbell Bay. A Trunk Road services connects Port Blair, Mayabunder and Diglipur using 3 ferry boats. There are 5 wharfs and 41 jetties in the islands, (b) There is a network of

black-tapped roads; (c) Airports: Port Blair

Education: * (a) Schools: 356; (b) Colleges: 3; (c) Universities: 0

Chandigarh

Date of Formation: UT since 1966

Area: 114 sq km

Capital: Chandigarh

Neighbouring States: Punjab, Haryana

Population: 9,00,914; Males: 508,224; Females: 392,690; Urban Population 89.78%; (a) Population Density: 7903; (b) Sex Ratio: 773

Literacy: 81.76%; Males: 85.65; Females: 76.65.

No. of Districts: One

Villages: 24; **Towns:** 1

Administrator: Gen. (Rtd.) S.F. Rodrigues

Legislative Bodies: Lok Sabha Seats: 1;

Rajya Sabha Seats: None

Seat of High Court: Punjab & Haryana (at Chandigarh)

Chief Languages: Hindi, Punjabi and English

Major Religions: Sikhism, Hinduism

Main Towns: Chandigarh

Economy: (a) Industries: Hosiery, antibiotics, cycles, electrical metres, home appliances, electronic equipments. There are 15 large and medium scale industrial units in Chandigarh, out of which two are public sector undertakings. More than 3000 units are registered under small scale sector and they offer employment to about 30,000 persons. The neighbouring States have developed industrial estates right next to the city; (b) Agricultural Products: The Territory has 1,400 hectares of cultivable land. The irrigated area is about 1,450 ha. Wheat, maize and paddy are the major crops. The forest covers 27 per cent of the area.

Transport & Communications: (a) Road Length: NH-15. 275 km.; (b) Main Railway Stations: Chandigarh; (c) Airports: Chandigarh.

Education: * (a) Schools: 162; (b) Colleges: 21; (c) Universities: 2

Culture: Festivals: Lodhi, Baisakhi

Dadra Nagar Haveli

Date of Formation: 11 Aug 1961

Area: 491 sq km

Capital: Silvassa

Neighbouring States: Gujarat, Maharashtra

Population: 2,20,451; Males: 121,731; Females: 98,720; Urban Population: 22.89%; (a) Population Density: 449; (b) Sex Ratio: 811

Literacy: 60.03%; Males: 73.32; Females: 42.99.

No. of Districts: One

Villages: 70; **Towns:** 2

Administrator: Rajani Kant Verma.

Legislative Bodies: State Legislature: None; Lok Sabha Seats: 1; Rajya Sabha Seats: None

Seat of High Court: Mumbai

Chief Languages: Bhili, Gujarati, Bhilodi, Marathi and Hindi

Main Towns: Silvassa

Geography: Rivers: Silvasa, Khanvel

Economy: (a) Industries: Textiles, engineering, chemicals, electronics, cottage; (b) Agricultural Products: Ragi, wheat, sugarcane, paddy, pulses, mango, chiku, lichi

Transport & Communications: (a) Road Length: 556 km; (b) Main Railway Stations: Vapi is 18 km from Silvassa; (c) Airports: Nil.

Education: * (a) Schools: 236; (b) Colleges: 0; (c) Universities: 0

Culture: Festivals: Diwaso, Bhawada, Kali Puja.

Daman & Diu

Date of Formation: 30 May 1987

Area: 112 sq km

Capital: Daman
Neighbouring States: Gujarat, Maharashtra, Dadra Nagar Haveli.

Population: 1,58,059 Males: 92,478; Females: 65,581, Urban Population: 36.26%; (a) Population Density: 1411; (b) Sex Ratio: 709

Literacy: 81.09%; Males: 88.40; Females: 70.37.

No. of Districts: 2

District	Area (sq km)	Population (2001)	Head-quarters
Daman	72	1,13,943	Daman
Diu	40	44,110	Diu

Villages: 23; **Towns:** 2

Administrator: Rajani Kant Verma.

Legislative Bodies: State Legislature: None

Legislative Bodies: Lok Sabha Seats: 2; Rajya Sabha Seats: None

Seat of High Court: Mumbai

Chief Languages: Gujarati, Hindi, Marathi

Major Religions: Hinduism, Christianity

Main Towns: Daman, Diu

Geography: Rivers: Kalem, Bhagwan (Daman)

Economy: (a) Minerals: Salt; (b) Industries: Fishing, tourism, and distillery.

Transport & Communications: (a) Road Length: 191 - Daman, 78 - Diu; (b) Nearest Railway Stations Vapi for Daman and Delvada for Diu; (c) Airports: Daman, Diu

Education: (a) Schools: 100; (b) Colleges: 2; (c) Universities: 0

Lakshadweep

Date of Formation: 1 Nov 1956 Laccadive, Minicoy, and Amindivi Islands union territory (separated from Madras (see Tamil Nadu)) 1 Nov 1973. Renamed Lakshadweep

Area: 32 sq km

Capital: Kavaratti

Neighbouring States: Kerala, Karnataka, Arabian Sea

Population: 60,595; Males: 31,118; Females: 29,477; Urban Population: 44.47%; (a) Population Density: 1,894; (b) Sex Ratio: 947
Literacy: 87.52%; Males: 93.15; Females: 81.56.

No. of Districts: 1. The entire group of islands is considered one district and divided into four tahsils.

Villages: 24; **Towns:** 3

Administrator: Rajendra Kumar

Legislative Bodies: State Legislature: None; Lok Sabha Seats: 1; Rajya Sabha Seats: None

Seat of High Court: Kerala (located in Kochi)

Chief Languages: Jerseri (Dweep Bhasha), Mahal and Malayalam

Major Religions: Islam

Major Islands: Kavaratti, Agatti, Minicoy, Andrott, Kalpeni, Amini, Kadamatt, Kiltan.

Geography: Its 36 islands covering an area of 32 sq. km only 10 are inhabited. Androth, 4.8 sq. kms, is the largest inhabited island and closest to the Kerala coast.

It is an archipelago of atolls, reefs and banks covered by the sea. The only coral islands in India are found in Lakshadweep. There are 27 coral islands. The 10 inhabited islands are Andrott, Amini, Agatti, Kavaratti, Chetlat, Kadamath, Kalpeni, Kavaratti and Minicoy) and 17 uninhabited islands. No island is wider than 1.5 kms

Lakshadweep with its lagoons and a total 4,200 sq km, 20,000 sq. km of territorial waters and about seven lakh sq. km of economic zone, is one of the largest territories in our nation

Economy: (a) Minerals: None
 Industries: Fishing, tourism, handicrafts, travel, coir; (c) Agriculture: Coconut, nut, Copra, banana

Transport & Communication: Lakshadweep islands and Kochi are connected by a cable. It takes about 12 hours

Airports: Agatti; (b) Port: Kavaratti, Minicoy, Agatti, Kadamatt, Kalpeni.

Education: (a) Schools: 36; (b) Colleges: 0; (c) Universities: 0

Puducherry (Pondicherry)

Date of Formation: 7 Jan 1963 Pondicherry union territory

Area: 492 sq. km

Capital: Pondicherry

Neighbouring States: Tamil Nadu, Karaikal (T.N.), Mahe (Kerala), Yanam (Andhra Pradesh, Bay of Bengal).

Population: 9,73,829; Males: 486,705; Females: 487,124; Urban Population: 66.57%; (a) Population Density: 2,029; (b) Sex Ratio: 1,001.

Literacy: 81.49%; Males: 88.89; Females: 74.13.

No. of Districts: 4

District	Area (sq km)	Population (2001)	Head-quarters
1. Karaikal	160	1,70,640	Karaikal
2. Mahe	9	36,823	Mahe
3. Pondicherry	293	7,35,004	Pondicherry
4. Yanam	30	31,362	Yanam

Villages: 92; **Towns:** 6

Lt. Governor: Mukut Mithi

CM: N. Rangaswamy

Legislative Bodies: State Legislature: Unicameral -Seats: 30; Lok Sabha Seats: 1; Rajya Sabha Seats: 3

Political Parties: Indian National Congress, Dravida Munetra Kazagam, Puducherry Makkal Congress, All India Dravida Munetra Kazagam, Tamil Manila Congress - Moopanar, Bharatiya Janatha Party.

Seat of High Court: Madras High Court.

Chief Languages: Tamil, Telugu, Malayalam, English and French.

Major Religions: Hinduism, Islam, Christianity.

Main Towns: Pondicherry, Karaikal, Yanam, Mahe.

Geography: Rivers: Gingee, Mahe, Arasalar (Karaikal), Gauthami (Yanam)

Economy: (a) Industries: Textiles, computer hardware, electronics, plastic, bicycle parts, alcoholic beverages, electrical appliances, automobile parts, soap, rice bran oil, cotton yarn, sugar, glazed tiles, etc.; (b) Agricultural Products: Rice, pulses, coconut, arecanut, condiments etc. Groundnut, chillies are grown in Yanam.

Transport & Communications: (a) Road Length: 2,443 km.; (b) Main Railway Stations: Villupuram Jn. (nearest railway link.); (c) Airports: (nearest-Chennai); (d) Port: Pondicherry.

Education: # (a) Schools: 657; (b) Colleges: 27; (c) Universities: 1

Culture: (a) Dances: Podikazhi attam; (b) Festivals: Mascarade (mask festival, Mar-Apr), Masimagam (Feb-Mar), eve of French Bastille Day - is marked by flags and parade; (c) Crafts: Hand-printed textiles, Kalakari batik, marbling work, handmade paper, bronzework.

Pondicherry's History

The modern history began with the arrival of the French in 1673, who controlled the territory for more than 280 years. The French East India Company established a settlement in 1674. Mahe was founded in 1725, Yanam in 1731 and Karaikal in 1739. Mahe was the site of prolonged battle between Britain and France in 18th & 19th centuries. The French captured the town in 1726. Yanam was part of the Chola empire.

Karaikal was a part of the Chola empire but was later captured by the Vijayanagaras, Marathas, and finally the French.

In 1954, the French, made a de facto transfer of the four territories to the Union of India. Its de jure transfer took place only in 1956 and the instrument of ratification was signed in 1962.

Note: Education # Source: Eco. Survey 2004-05, S-111, Tab. 9.3)

GENERAL KNOWLEDGE

PART

09

Abbreviations and Acronyms

- A**: Alcoholics Anonymous
AA: Asian Athletics Association
AFA: The Amateur Athletics Federation of India
ABC: Atomic Biological and Chemical (Warfare); Audit Bureau of Circulation
ABE: Association of Biotechnology Led Enterprises
AC: Ante Christum (Before Christ), Alternating Current; Ashoka Chakra; Air Conditioner.
ACR: Annual Confidential Report
AD: Anno Domini (in the year of our Lord)
ADAM: Animated Dissection of Anatomy for Medicine
ADB: Asian Development Bank
ADBS: Advanced Data Broadcast System
ADC: Aide-de-camp (help or assistant)
AFI: Athletics Federation of India
AFMC: Armed Forces Medical College
AFP: Agence France-Presse
AG: Accountant General; Adjutant General
AGP: Accelerated graphics port
AH: Anno Hegirae (Mohammed's flight from Mecca to Medina, 622 AD)
AI: Artificial Intelligence; Air India
AICTE: All India Council for Technical Education
AIDS: Acquired Immune Deficiency Syndrome
AIFF: All India Football Federation
AIG: American International Group
AIIMS: All India Institute of Medical Sciences
AINEC: All India Newspaper Editors' Conference
AITUC: All India Trade Union Congress
ALGOL: Algebraic Oriented Language
AM: Ante Meridiem (before noon); Amplitude Modulation
AMIE: Associate Member of the Institute of Engineers
ANA: All Nippon Airways
ANC: African National Congress
ANERT: Agency for Non-conventional Energy and Rural Technology
ANZUS: Australia, New Zealand US (Pacific Pact Nations)
AOC: Air Officer Commanding
APCTT: Asian and Pacific Centre for Transfer of Technology
AQA: Assessment and Qualification Alliance (UK)
APD: Automated Peritoneal Dialysis
APEC: Asia Pacific Economic Cooperation
APM: Administered Price Mechanism
ARPANET: Advanced Research Project Agency Network
ART: Assisted Reproductive Technologies
ASAP: as soon as possible
ASCII: American Standard Code for Information Interchange
ASEAN: Association of South East Asian Nations
ASEM: Asia-Europe Meeting
ASLV: Augmented Satellite Launch Vehicle
ASSOCHAM: Associated Chamber of Commerce and Industry
ASP: Application Service Provider, Association of Shareware Professionals
AT&T: American Telegraphic and Telephone Co. Ltd.
ATC: Air Traffic Control
ATM: Automated Teller Machine, Adobe Type Manager
ATP: Adenosine Tri-Phosphate
ATS: Anti-Tetanus Serum
AU: Astronomical Units; African Union

Association of Voluntary Agencies
 ral Development
 Audio Visual Research Centre
 Ati Vishisht Seva Medal
R: Aerobic Vehicle for Hypersonic
 Space Transportation; Advanced Video
 Route Terminal Assembler and Recreator
S: Airborne Warning And Control Sys-
 tems
S: Business to Business
 Business to Consumer
S: Bhabha Atomic Research Centre
S: British Broadcasting Corporation
 Bulletin Board Service
 before Christ
S: Bacillus Calmette-Guerin (anti-TB vaccine)
ELUX: Belgium, Netherlands and Lux-
 embourg
L: Blue Green Algae
EL: Bharat Heavy Electricals Ltd
P: brake horsepower
R: Board for Industrial and Financial Re-
 construction
MARU: Bihar, Madhya Pradesh, Rajasthan,
 Uttar Pradesh
ISTEC: Bangladesh, India, Myanmar, Sri
 Lanka, Thailand Economic Cooperation
IOS: Basic Input Output System
IS: Bank of International Settlement; Bu-
 reaus of Indian Standards
BIT: Binary Digit
BITSAT: Birla Institute of Technology and
 Science Admission Test
BOLT: Bombay Stock Exchange On-Line Trad-
 ing; Build-Operate-Lease-Transfer
BOT: Build, Operate and Transfer
BP: Blood Pressure
BPL: Below Poverty Line
BPO: Business Process Outsourcing
BPR: Business Process Re-engineering
bps: bytes per second
BRO: Border Roads Organisa-tion
BSE: Bombay Stock Exchange
BSF: Border Security Force
BSkyB: British Sky Broadcasting

BSNL: Bharat Sanchar Nigam Limited
C2C: Consumer to Consumer
C-in-C: Commander-in-Chief
c.v.: Curriculum vitae
C/o: care of
CA: Chartered Accountant
CABE: Central Advisory Board of Education
CAD: Command Area Development; Com-
 puter Aided Design
CADA: Command Area Development Authority
CAFOD: Catholic Fund for Overseas Devel-
 opment
CAFTA: Central American Free Trade Agree-
 ment
CAG: Comptroller and Auditor General of
 India
CAMPCO: Central Arecanut Marketing
 and Processing Co-operative
CAN : Calcium Ammonium Nitrate
Cantab: Cantabrigian (of Cambridge Univer-
 sity)
CAPA: Centre for Asia Pacific Aviation
CAPART: Council for Advancement of
 People's Action and Rural Technology
CAPES : Computer-Aided Paper-less Exami-
 nation System
CAS: Conditional Access System
CAT: Career Aptitude Test; Common Admis-
 sion Test; Computerized Axial Tomog-
 raphy (also called CT); Computer Adap-
 tive Test
CBA: Colliding Beam Accelerator.
CBDT: Central Board of Direct Taxes
CBFC: Central Board of Film Certification.
CBI : Central Bureau of Investigation
CBM: Confidence Building Measures
CBSE: Central Board of Secondary Education
CBU: completely built-up
CCPD: Continuous Ambulatory Peritoneal
 Dialysis
CD : Compact disk; Certificate of deposit
CDAC: Centre for the Development of Ad-
 vanced Computing
CDM: cold dark matter
CDMA: Code Division Multiple Access

A: Comprehensive Economic Co-operation Agreement
TA: Certificate for English Language Teaching to speakers of Other Languages
EO: Chief Executive Officer
NE: Conseil Européen pour la Recherche Nucléaire (European Laboratory for Nuclear research)
CTERT: Computer Emergency Response Team
Compare / refer (L. Confer)
CF: Chloro Fluoro Carbon
CF: Common Fund for Commodities
CF: Compact Fluorescent Lamps
CF: Chief Financial Officer
CF: Central Forensic Science Laboratory
CFNS: Commission on Graduates of Foreign Nursing Schools
CF: Common Gateway Interface
CGPA: Cumulative Grade Point Average
CG: Chief of General Staff; Centimetre, Gram, Second
CF: Central Intelligence Agency
CFIL: Credit Information Bureau India Ltd.
CF: Criminal Investigation Department
CF: cost, insurance and freight
CFAR: Consultative Group on International Agricultural Research
CF: Confederation of Indian Industry
CF: Commonwealth of Independent States
CF: Complex instruction-set computing
CFCE: Council for the Indian School Certificate Examinations
CITU: Centre of Indian Trade Unions
CKD: Completely Knocked Down
CMIE: Centre for Monitoring the Indian Economy
CMP: Common Minimum Programme
CNC: Computerised Numerical Control
CNN: Cable News Network
CO: Commanding Officer
COD: cash on delivery
COFEPOSA: Conservation of Foreign Exchange and Prevention of Smuggling Act
COMPS: Coastal Ocean Monitoring and Prediction System

COMSAT: Communications Satellite Corporation
CONCORD: Council of North Indian States for Co-operation and Regional Development
COPRA: Consumer Protection Act
CORBA: Common Object Request Broker Architecture
COSMEP: Consortium of Schools of Mathematics Experience Programme
COSTFORD: Centre of Science and Technology for Rural Development
CPI/M: Communist Party of India / Marxist
CPR: Cardio Pulmonary Resuscitation
CPWD: Central Public Works Department
CRIDA: Central Research Institute for Dry Land Agriculture
CRIS: Centre for Railway Information Systems
CRISIL: Credit Rating Information Services of India Ltd.
CRM: Customer Relations Management
CCR: Cash Reserve Ratio
CRY: Child Relief and You
CSC: Customer Service Centre
CSIR: Council of Scientific and Industrial Research
CSO: Central Statistical Organisation
CT: Computerised Tomography
CTBT: Comprehensive Test Ban Treaty
CVC: Chief Vigilance Commission
CVR: Cockpit Voice Recorder
CWC: Chemical Weapons Convention; Congress Working Committee
Cwt: Hundredweight (112 lb)
CYMK: Cyan, Yellow, Magenta, Kinda
D & C: Dilation and Curettage
D.Litt.: Doctor of Literature
D.Phil.: Doctor of Philosophy
D.Sc: Doctor of Science
DAP: Di-Ammonium Nitrate
DC: Direct Current; District of Columbia
DDT: Dichloro-diphenyl-trichloro-ethane
DET: Directory Entry Table
DG: Dei gratia (by the grace of God)
DHSD: Duplex-High Speed Data Service

y Inspector General
 ct Memory Access
 ida Munetra Kazhagam
 nilitarized Zone
 yribo-nucleic Acid
 omate of the National Board
 evelopmental Press Bulletin Service
 rict Primary Education Programme
 uthria, pertussis and tetanus
 y)
 tal Satellite Broadcasting
 al subscriber line
 tal Signal Processing
 ct to Home
 ktop Publishing
 tal Theatre System
 Volente (God willing)
 nodar Valley Corporation
 gital Versatile/Video Disc
 tal Video Interactive
 ktop Video-Con-ferencing Software
 Errors and Omissions Excepted
 nest & Young
 Electronic Mailing
 nergency action message
 ential Commodities Act
 ectro Cardiogram
 xport credit guarantee corporation
 lia
 C: Economic and Social Council (UN)
 eutron Cyclotron Resonance
 lectronic Data Interchange
 Electronic Document Management
 m
 astern Daylight Time
 lectro Encephalo-gram
 xclusive Economic Zone
 European Free Trade Association
 xempli gratia (for example)
 Exterior Gateway Protocol
 xecutive Information System
 ectro-luminescent
 f: Electronic Intelligence
 : Enzyme Linked Immuno-Sorbent As-

ELT: English Learning and Teaching
EMI: Equated Monthly Instalments
EMRC: Educational Media Research Centre
ENIAC: Electronic Numerical Integrator and Calculator
ENT: Ear, Nose and Throat
EOF: end of file
EOS : Electronic Online System International
EOU: Export Oriented Unit
EPABX: Electronic Private Automatic Branch Exchange
EPCI: Enhanced Proliferation Control Initiative
EPG: Eminent Persons Group
EPI: Expanded Programme of Immunisation
EPIRB: Emergency Position Indicating Radio Beacon
EPNS: Electroplated Nickel Silver
EPROM: Erasable, Programmable Read Only Memory
EPS: Encapsulated Postscript
EPZ : Export Processing Zone
EQ: Emotional Quotient
ER&DC: Electronic Research and Development Center
ERM : European Exchange Rate Mechanism
ERNET: Educational and Research Network
ERNIE: Electronic Random Number Indicator Equipment
ESA: European Space Agency
ESCAP: Economic and Social Commission for Asia and the Pacific
ESMA : Essential Services Maintenance Act
ESP: Extra Sensory Perception
ESR: Electron Spin Resonance
ESSD: Environmentally and Socially Sustainable Development
et al.: et alii (and others)
et. seq: et sequentia (& what follows)
etc. et: cetera (and so forth)
ETT: Embryo Transfer Technology
EURATOM: European Atomic Community
EUTELSAT: European Telecommunications Satellite
EVA: Economic Value Added

ne environment
g
Organisation
Frequently Asked

Investigation

at Reactor

of India; Fertilizer Cor-

urrency Non-Resident Ac-

tribution Regulation Act

ct Investment

Exchange Management Act

on of Indian Chambers of

and Industry

on Inter-nationale d'Echecs

tional Football Federation (Fed-

ernationale de Football Associa-

n Institutional Investors

Foreign Investment Promotion Board

Information Report

ully integrated robotised engine

Fibre optic Link Around the Globe

Foreign Legal Consultant

Frequency modulation

: Forward Markets Commission

CT: Fissile Material Cut-off Treaty

: free on board

: free on rail

OSDIC: Film Optical Sensing Device for

Input to Computers

FDP: Flat panel display

FPO: Fruit Products Order

FRCP: Fellow of the Royal College of Physicians

FRCS: Fellow of the Royal College of Sur-

geons

FRGS: Fellow of the Royal Geographical Society

FRS: Fellow of the Royal Society

FTII: Films and Television Institute of India

FYI: for your information

3G: Third Generation

G2B: Government-to-Business
G2C: Government-to-Citizens
G7: Group of Seven (US, UK, Germany, France,
Italy, Japan and Canada) G8 includes G7
plus Russia

GAAP: Generally Accepted Accounting Prac-
tices

GAIN: Global Alliance for Improved Nutri-
tion

GATE: Graduate Aptitude Test in Engineer-
ing

GATS: General Agreement on Trade and Se-
vices

GAVI: Global Alliance for Vaccines a
Immuni- sation

GBP: Geosphere-Biosphere Programme

G.B.E.: Grand Cross of the British Empire

G.B.H.: Grievous Bodily Harm

GCC: Gulf Co-operation Council

GCR: Grey Component Replacement

GDP: Gross Domestic Product

GDR: Global Depository Receipt

GEDIS: Gateway Electronic Data Interchange
Services

GEF: Global Environment Fund

GEMS: Gateway Electronic Mail Service

GHQ: General Headquarters

GI: Government Issue (American soldiers)

GIS: Geographical Information System

GJEPC: Gems and Jewellery Export Promo-
tion Council

GMAT: Graduate Management Admission
Test

GMDSS: Global Maritime Distress and Safety
System

GMO: Genetically Modified Organisms

GMRT: Giant Metrewave Radio Telescope

GMT: Greenwich Mean Time

GNP: Gross National Product

GOOS: Global Ocean Observing System

GOP: Grand Old Party (Republican Par-

GPA: Grade Point Average

GPS: Global Positioning System

GPSS: Gateway Packet Switching Sy-

GRACE: Ground Rules and Code of

IGF: India Growth Fund

IGIDR: Indira Gandhi Institute of Development Research

IGNOU: Indira Gandhi National Open University

IGY: International Geophysical Year

IIMC: Indian Institute of Mass Communication

IIPA: Indian Institute of Public Administration

IISCO: Indian Iron and Steel Company

IISS: International Institute of Strategic Studies

IIT: Indian Institute of Technology

ILA: Indian Library Association

ILO: International Labour Organisation

IMAP: Internet Mail Access Protocol

IMCO: Inter-government Maritime Consultations Organisation

IMEWS: Integrated Missile Early Warning Satellites

IMF: International Monetary Fund

in cognito: in disguise

INA: Indian National Army

INDIPEX: Indian International Philatelic Exhibition

infra dig infra dignitatum (below status)

I.N.R.I.: Iesus Nazarenus Rex Iudaeorum (Jesus of Nazareth, King of the Jews)

INS: Indian Newspaper Society

INSAT: Indian National Satellite

INTACH: Indian National Trust for Art and Cultural Heritage

INTELSAT: International Telecommunication Satellite

INTUC: Indian National Trade Union Congress

IOC: Indian Oil Corporation

IOU: I Owe You

IP: Internet Protocol

IPC: Indian Penal Code

IPCL: Indian Petro-Chemicals Corporation Ltd

IPI: International Press Institute

IPO: Initial Public Offering

IPS: Indian Police Service; Inter Press Service

IQ: Intelligence Quotient

iq: idem quod (the same as)

IRA: Irish Republican Army

IRBM: Intermediate Range Ballistic Missile

IRC: International Red Cross

IRDPP: Integrated Rural Development Programme

IRE: Indian Rare Earth Ltd.

IREDA: Indian Renewable Energy Development Agency

IRRI: International Rice Research Institute

IRS: Indian Revenue Service

ISBN: International Standard Book Number

ISC: Indian School Certificate

ISDN: Integrated Services Digital Network

ISI: Indian Standards Institution, Inter Services Intelligence

ISKCON: International Society for Krishna Consciousness

ISO: International Standards Organisation

ISRO: Indian Space Research Organisation

ISSN: International Standard Serial Number

IST: Indian Standard Time

ITA: Information Technology Agreement

ITBP: Indo-Tibetan Border Police

ITes: Information Technology enabled services

ITI: Indian Telephone Industries; Industrial Training Institute

ITU: International Telecommunication Union

IUCAA: International University Centre for Astronomy and Astrophysics

IUCD: Intra-Uterine Contraceptive Device

IUI: Intrauterine Insemination

IVF: In-Vitro Fertilisation

IVM: In-vitro Maturation

I-R: Infra Red

JCO: Junior Commissioned Officer

JEE: Joint Entrance Examination

JIPMER: Jawaharlal Nehru Institute of Postgraduate Medical Education and Research

JNCASR: Jawaharlal Nehru Centre for Advanced Scientific Research

JP: Justice of Peace

JPEG: Joint Photographic Expert Group

- C:** Kentucky Fried Chicken
- G:** Knight of the Garter; Kindergarten
- SCO:** Kudremukh Iron and Steel Company
- KK:** Ku Klux Klan (U S. secret society-Anti-Negro, Anti-Jewish)
- MT:** Kuomintang (Chinese National Party)
- RC:** Konkan Railway Corporation
- RRL:** Kochi Refineries Ltd.
- KYC:** Know Your Customer
- Kymco:** Kwang Yang Motor Company (S. Korea)
- LASER:** Light Amplification by Stimulated Emission of Radiation
- LASIK:** Laser in situ Kerato-mileusis
- LCA:** Light Combat Aircraft
- LCD:** Liquid Crystal Display, Least Common Denominator
- LCM:** Lowest Common Multiple
- LDL:** Low-Density Lipoprotein (Cholesterol)
- LERMS:** Liberalised Exchange Rate Management Scheme
- LeT:** Lashkar-e-Taiba
- LIC:** Life Insurance Corporation (of India)
- LIPS:** Language Independent Programme Subtitles
- LIS:** Land Information System
- LL.B.:** Bachelor of Laws
- LMC:** Large Megallanic Cloud
- Loc.cit:** Loco citato (at the place quoted)
- LPG:** Liquefied Petroleum Gas
- LSD:** Lysergic acid di-ethylamide
- ..Col.:** Lieutenant Colonel
- LTE:** Liberation Tigers of Tamil Elam
- M:** Monsieur (Mister)
- M.A.:** Magister Artium (Master of Arts)
- M.D:** Doctor of Medicine
- M1:** Money supply with public
- M3:** Aggregate monetary resources
- MA:** Milliampere
- MAD:** Mutually Assured Destruction
- MAIT:** Manufacturers Association for Information Technology
- MARS:** Mumbai Amateur Radio Society
- MASER:** Microwave Amplification by Stimulated Emission of Radiation
- MBA:** Master of Business Administration
- MBBS:** Bachelor of Medicine and Bachelor of Surgery
- MbPT:** Mumbai Port Trust
- MCC:** Marylebone Cricket Club
- MCF:** Master Control Facility (of ISRO) - Bhopal
- MCI:** Medical Council of India
- MCLR:** Medium Capacity Long Range
- MDA:** market development assistance
- MFN:** Most Favoured Nation
- MICR:** Magnetic ink character recognition
- MIDI:** Musical Instrument Digital Interface
- MIFOR:** Mumbai Inter-Bank Forward Offer Rate
- MIPS:** Million Instructions per Second
- MIRU:** Million Independently targeted re-entry Vehicle
- MISA:** Maintenance of Internal Security Act
- Misc.:** Miscellaneous
- MIT:** Massachusetts Institute of Technology, US; Master Instruction Tape
- MKS:** Metre Kilogram Second (System)
- MI:** Military Intelligence
- MLA:** Member of Legislative Assembly
- Mlle:** Mademoiselle (Miss)
- MLP:** multiple line printer
- Mme:** Madame (Mrs.)
- MMTC:** Minerals and Metals Trading Corporation
- MMX:** Matrix Manipulation Extension; Multimedia extension
- MNC:** Multi-National Corporation
- MODEM:** modulator demodulator
- MODVAT:** Modified Value Added Tax
- MOR:** middle-of-the-Road
- MOSFET:** Metal Oxide Semiconductor Field Effect Transistor
- MOU:** Memorandum of Understanding
- MP:** Member of Parliament; Madhya Pradesh
- MPEG:** Motion Picture Experts Group
- mph:** miles per hour
- MPLAD:** Member of Parliament Local Area Development
- MRA:** Moral Re-Armament

- IRCP:** Member of the Royal College of Physicians
- RTPC:** Monopolies and Restrictive Trade Practices Commission
- IS/MSS:** Manuscript/ Manuscripts
- ISCI:** Morgan Stanley Capital International
- IT:** Metric Ton
- ITBE:** methyl-tertiary-butyl-ether
- ITCR:** Missile Technology Control Regime
- IVC:** Maha Vir Chakra
- AA:** National Airports Authority
- AAC:** National Assessment and Accreditation Council
- ABARD:** National Bank for Agriculture and Rural Development
- AC:** National Advisory Council
- AFED:** National Agricultural Co-operative Marketing Federation
- AFTA:** North American Free Trade Agreement
- ALCO:** National Aluminium Company Ltd.
- ASA:** National Aeronautics and Space Administration
- ASDAQ:** National Association of Securities Dealers Automated Quotation
- ASSCOM:** National Association of Software and Service Companies
- IATO:** North Atlantic Treaty Organisation
- IATPAC:** National Transportation Planning and Research Centre
- IAV:** Net Asset Value
- IB:** nota bene (note well)
- IBE:** National Board of Examination
- IBOT:** National Board of Trade
- JBW:** Non-Bailable Warrant
- NBWL:** National Board on Wild Life
- NC:** Network Computer
- NCAER:** National Council of Applied Economic Research
- NCC:** National Cadet Corps
- NCERT:** National Council of Educational Research and Training
- NCI:** Nursing Council of India
- NCO:** Non-Commissioned Officer
- NCSA:** National Centre for Supercomputing Applications; National Computer Security Association
- NDA:** National Defence Academy
- NDC:** National Development Council
- NDDB:** National Dairy Development Board
- NDES:** New Data Encryption Standard
- NEOCONS:** Neo-Conservatives
- NEXARD:** Next Generation Radar (Doppler radar)
- NGO:** Non-Government Organisation; Non-Gazett-ed Officer
- NHPC:** National Hydroelectric Power Corporation
- NICD:** National Institute of Communicable Diseases
- NIMHANS:** National Institute of Mental Health And Neuro Sciences
- NIPER:** National Institute of Pharmaceutical Education and Research
- NISCAIR:** National Institute for Science Communication and Information Resources
- NIV:** National Institute of Virology
- NKC:** National Knowledge Commission
- NLC:** Neyveli Lignite Corporation
- NMDC:** National Mineral Development Corporation
- NMITLI:** New Millennium Indian Technology Leadership Initiative
- NMR:** Nuclear Magnetic Resonance
- NMS:** Network Management System
- NOC:** No Objection Certificate
- NPA:** Non-performing Assets
- NPC:** National Productivity Council
- NPCIL:** Nuclear Power Corporation of India Ltd.
- NPEEE:** National Programme for Earthquake Engineering Education
- NPL:** National Physical Laboratory; Non-performing Loans
- NPT:** Nuclear Non-Proliferation Treaty
- NRF:** National Renewal Fund
- NRS:** National Readership Survey
- N&S:** Network and Systems
- NSA:** National Security Advisor
- NSEI:** National Stock Exchange of India

G: Nuclear Suppliers Group
P: Native Signal Processing
UI: National Students Union of India
TM: Nano Science and Technology Mission
PC: National Thermal Power Corporation
SC: National Television System Commission
SE: National Talent Search Examination
& M: Organisation & Methods
APEC: Organisation of Arab Petroleum Exporting Countries
AS: Organisation of American States
AU: Organisation of African Unity (now AU)
BC: Other Backward Classes
BU: Offshore Banking Unit
CD: Obsessive Compulsive Disorder
CR: Optical Character Recognition
DA: Overseas Development Administration
DI: Open Data Link Interface
ECD: Organisation for Economic Co-operation and Development
GL: Open General Licence
C: Organisation of Islamic Conference
GS: On India Government Service
C: All Correct (slang)
E: Object Linking and Embedding
NGC: Oil and Natural Gas Corporation
OP: Object Oriented Programme
c. cit.: Opero citato (in the work cited)
PCW: Organisation for the Prohibition of Chemical Weapons
PEC: Organisation of Petroleum Exporting Countries
PV: Oral Polio Vaccine
RT: Oral Rehydration Therapy
SCAR: Orbiting Satellite Carrying Amateur Radio
XFAM: Oxford Committee for Famine Relief
oxon: Oxoniensis (of Oxford University)
AC: Public Accounts committee
AL: Phase Alternation Line
AN: Permanent Account Number
AR: Performance Appraisal Report

PAT: Profit After Tax
PAYE: pay as you earn
PC: post card; Personal Computer
p.c.: per cent
PCA: Professional Chess Association
PCM: Pulse code modulation
PCMCIA: Personal Computer Memory Card International Association
PDA: Preventive Detention Act, Personal Digital Assistant
PDS: Public Distribution System
PEARL: Package for Effective Administration of Registered Laws
PFRDA: Pension Fund Regulatory and Development Authority
PEC: Project and Equipment Corporation
PEN: (International club of) Poets, Playwrights, Essayists, Editors and Novelists
PERT: Project Evaluation and Review Technique
PETA: People for Ethical Treatment of Animals
PGIMER: Post Graduate Institute of Medical Education and Research
PGM-FI: Programmed Fuel Injection
PGP: Pretty Good Privacy
Ph.D.: Doctor of Philosophy (Philosophiae Doctor)
PHDCCI: Punjab, Haryana, Delhi Chamber of Commerce and Industries
PIB: Press Information Bureau
PIGS: Pre-implantation Genetic Screening
PIL: Press Institute of India
PIL: Public Interest Litigation
PIM: Personal Information Management
PIN: Postal Index Number
Pixel: Picture element
PLAB: Professional and Linguistic Assessment Board
PM: Post Meridiem; Prime Minister
PMG: Post Master General
PMUPEP: Prime Minister's Urban Poverty Eradication Programme
PNR: Passenger Name Recorder
POTA: Prevention of Terrorism Act
POW: Prisoner of War

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PDS: Public Distribution System
PEARL: Package for Effective Administration of Registered Laws
PFDA: Pension Fund Regulatory and Development Authority
PEC: Project and Equipment Corporation
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PERT: Project Evaluation and Review Technique
PETA: People for Ethical Treatment of Animals
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PGP: Pretty Good Privacy
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PHDCCI: Punjab, Haryana, Delhi Chamber of Commerce and Industries
PIB: Press Information Bureau
PGS: Pre-implantation Genetic Screening
PIL: Press Institute of India
PIL: Public Interest Litigation
PIM: Personal Information Management
PIN: Postal Index Number
Pixel: Picture element
PLAB: Professional and Linguistic Assessment Board
PM: Post Meridien; Prime Minister
PMG: Post Master General
PMUPEP: Prime Minister's Urban Poverty Eradication Programme
PNR: Passenger Name Recorder
POTA: Prevention of Terrorism Act
POW: Prisoner of War

PPP: Purchasing power parity; Point-to-point Protocol

PPPP: Public Private Panchayat Partnership

PPS: Post Post Scriptum (additional post script)

Pro-tem: Pro tempore (for the time being)

PROLOG: Programming logic

PS: Post Scriptum (written after); Private Secretary

PSLV: Polar Satellite Launch Vehicle

PSN: Processor Serial Number

PTA: Parent-Teacher Association

PTI: Press Trust of India

PTO: Please Turn Over

PVC: Poly vinyl Chloride; Param Vir Chakra

PWD: Public Works Department; Persons with Disability

PZD: Partial Zonal Drilling

QED: Quod Erat Demonstrandum [which was to be demonstrated or proved]

Q Queue: qed Quod Erat Demon-strandum (that which was to be demonstrated)

QR: Quantitative restriction

QSO: Quasi-stellar object

qv: quod vide ((which see)

R&D: Research and Development

R&M: Renovation and Modernisation

RABMN: Remote Area Business Message Network

RAC: Reservation Against Cancellation

RADAR: Radio Detecting and Ranging

RAM: Random Access Memory

RAPD: Random Amplified Polymorphic Deoxyribonucleic Acid

RAW: Research & Analysis Wing

RBI: Reserve Bank of India

RCC: Reinforced Cement Concrete

RD: refer to drawer

RDX: Research Department Explosive (Cyclotrim-ethylin Trinitrate)

REM: Rapid Eye Movement

RFC: Request for Comments

RH: Rainwater Harvest

RIP: Requiescat in pace (May he or she rest in peace); Raster Image Processor

RISC: Reduced instruction-set computing

RITES: Rail India Technical & Economic Services

RLO: Returned Letters Office

RMS: Railway Mail Service

RNA: Ribonucleic acid

ROM: Read Only Memory

RONW: return on net worth

RPM: Revolutions Per Minute

RSE: Renewable Source of Energy

RSS: Rashtriya Swayam Sewak Sangh

R.S.V.P./R.s.v.p.: Repondez S'il Vous Plait . (Reply if you please)

RTG: Radio-isotope Thermoelectric Generator

RTI: Right to Information

SAA: South African Airways

SACLANT: Supreme Allied Commander Atlantic

SASE: Self-addressed stamp-ed envelope

S &T: Science and Technology

SAC: Space Application Centre

SAIL: Steel Authority of India Limited

SAM: Surface to Air Missile

SAPTA: South Asian Preferential Trade Agreement

SARS: Severe Acute Respiratory Syndrome

SASER: Sound Amplification by Stimulated Emission of Radiation

SAT: Scholastic Aptitude Test

SAVE: SAARC Audio-Visual Exchange

SCABA: Self contained Air Breathing Apparatus

SCI: Shipping Corporation of India

SCM: Supply Chain Management

SCSI: Small Computer Systems Interface

SCUBA: Self-contained Underwater Breathing Apparatus

SDR: Special Drawing Rights

SEANWFZ: South East Asia Nuclear Weapons Free Zone

SEBI: Securities and Exchange Board of India

SENSEX: Sensitivity Index (of Share Price)

SET: Secure Electronic Transmission

SEZ: Special Economic Zone

SGPC: Siromani Gurudwara Prabandak Committee

SHAPE: Supreme Head-quarters Allied Powers, Europe

SHG: Self Help Group

SIDS: Sudden Infant Death Syndrome (Crib Death)

SIFT: Sperm Intra-Fallopian Transfer

SIM: Subscriber Information Module

SIP: Systematic Investment Planning

SITA: Suppression of Immoral Traffic Act

SITE: Satellite Instructional Television Experiment

SLBM: Submarine Launched Ballistic Missile

SLFP: Sri Lanka Freedom Party

SLR: Statutory Liquidity Ratio; Single Lens Reflex

SLV: Satellite Launch Vehicle

SMTP: Simple Mail Transfer Protocol

SMS: Short Message Service

SNA: System Network Architecture

SOHO: Small Office Home Office

SOLAS: Safety of Life at Sea

SPCA: Society for Prevention of Cruelty to Animals

SPECT: Single Photon Emission Computed Tomography

SPTM: Self-Printing Ticketing Machine

STAR(TV): Satellite Television Asian Region Ltd.

START: Strategic Arms Reduction Talks

STC: State Trading Corporation

STD: Subscriber Trunk Dialling; Sexually Transmitted Diseases

STP: Software Technology Park

STQC: Standardisation Testing and Quality Control

SUNFED: Special United Nations Fund for Economic Development

SUV: sports utility vehicle

SVP: Saturated Vapour Pressure

Swift: Secure worldwide immediate fund transfer

SWOT: Strengths, Weaknesses, Opportunities and Threats

T & D: Transmission & Distribution

TA: Territorial Army; Traveling Allowance

TACAMO: take charge and move over

TADA: Terrorist and Disruptive Activities (Prevention) Act

TAFE: Technical And Further Education (in Australia)

TAFE: Tractor and Farm Equipment Ltd.

TAFTA: Trans-Atlantic Free Trade Agreement

TAPS: Tarapur Atomic Power Station

TB: tuberculosis

TBSE: Technology Bureau for Small Enterprise

TCP: Transfer Call Protocol, Transmission Control Protocol

TDA: Trade Development Authority

TDMA: Time Division Multiple Access

TELCO: Tata Engineering and Locomotive Company

TEQIP: Technical Education Quality Improvement Programme

TERLS: Thumba Equatorial Rocket Launching Station

TFT: Thin-Film Transistor

TFYP: Tenth Five Year Plan

TIFAC: Technology and Information Forecasting and Assessment Council

TIFR: Tata Institute of Fundamental Research

TIPS: Technology Information Pilot System

TIPTOP: Tape input-tape output

TISCO: Tata Iron and Steel Company

TLC: Total Literacy Campaign

TMO: Telegraphic Money Order

TNG: The Next Generation

TNT: Trinitro-toluene

TOEFL: Test of English as a foreign language

TPM: Total Productivity Measure and

TQM: Total Quality Management

TRACT: Transportable Remote Area Communications Terminal

TRIMS: Trade Related Investment Measures

TRIPS: Trade Related Intellectual Property Rights

TRYSEM: Training of Rural Youth for Self-employment

TSE: Test of Spoken English

TTC: Telemetry, Tracking & Command

TTE: Travelling Ticket Examiner

TWE: Test of Written English

TWT: Two Way Time

UAV: Unmanned Aerial Vehicle

UCI: Universal Childhood Immunisation

UCIL: Uranium Corporation of India Ltd.

UCLA: University of California Los Angeles

UCR: Under Colour Removal

UGC: University Grants Commission

UHF: Ultra High Frequency

ULEV: Ultra Low Emission Vehicle

ULFA: United Liberation Front of Asom

UNCED: UN Conference on Environment & Development

UNCIP: United Nations Commission for India & Pakistan

UNCLOS: United Nations Convention on the Law of the Sea

UNCSTD: United Nations Conference on Science and Technology for Development

UNCTAD: United Nations Conference on Trade and Development

UNEP: United Nations Environment Programme

UNESCO: United Nations Educational, Scientific and Cultural Organisation

UNFPA: United Nations Population Fund

UNI: United News of India

UNICEF: United Nations International Children's Emergency Fund (now, 'United Nations Children's Fund')

UNIDO: United Nations Industrial Development Organisation

UNIFEM: United Nations Development Fund for Women

UNITA: Union for the Total Independence of Angola

UNMOGIP: United Nations Military Observer Group in India and Pakistan

UNOPS: UN Office for Project Services

UNPROFOR: UN Protection Force

UNRRA: United Nations Relief and Rehabilitation Administration

UNU: United Nations University

UPA: United Progressive Alliance

UPS: Uninterrupted Power Supply

UPSC: Union Public Service Commission

URL: Uniform Resource Locator

USAID: United States Agency for International Development

USO: Udaipur Solar Observatory

USP: Unique selling proposition

VABAL: Value Based Advance Licensing

VAN: Virtual Area Network

VAT: Value Added Tax

VATIS: Value Added Technology Information Service

VBV: Vainu Bappu Telescope

VC: Vice-Chancellor, Victoria Cross; Venture Capital

VCR: Video Cassette Recorder

VD: Venereal Disease (see STD)

VDIS: Voluntary Disclosure of Income Scheme

VESA: Video Electronics Standard Association

VHRR: Very High Resolution Radiometer

VHS: Video Home System

VIP: Very Important Person

VIRUS: Vital Information Resources Under Siege

VPI: Virtual Private Internet

VPP: Value Payable Post

VRML: Virtual Reality Modelling Language

VRS: Voluntary Retirement Scheme

VSAT: Very Small Aperture Terminal

VSSC: Vikram Sarabhai Space Centre

VTEC: Variable Valve Timing and Lift Electronic Control

VTR: Video Tape Recorder

WAIS: Wide Area Information Service

WAN: World Association of Newspapers

WARDEC: Wargaming Development Centre

WAY: World A Council of Churches

WCC: World Council of Churches

WDM: World Debt Market

WEF: World Economic Forum
WFTU: World Federation of Trade Unions
WFUL: World Federation of Trade Unions
WG: Working Group
WGA: Weighted Grade Point Average
WHO: World Health Organisation
WIMP: Weakly Interacting Massive Particle;
 Windows, Icons, Menus, Pointers
WMD: Weapons of Mass Destruction
WMO: World Meteorological Organisation
WPI: Wholesale Price Index
WTI: World Tribunal on Iraq
WTO: World Trade Organisation
WTP: willingness-to-pay
WWF: World Wildlife Fund, now renamed
 Worldwide Fund for Nature

WWW: World Wide Web
WYSIWYG: What you see is what you
 get
XBT: Expandable Battery Thermography
Xmas: Christmas
XML: Extensible Mark-up Language
XPD: X-Ray Photoelectron Diffraction
YMCA: Young Men's Christian Association
YWCA: Young Women's Christian Association
ZIFT: Zygote Intrafallopian Transfer
ZIP: Zone Improvement Plan
ZOPFAN: Zone of Peace, Freedom and
 Neutrality
9/11: September Eleven
7/7: July Seven

Books, Authors and Their Nationalities

A Brief History of Time: Stephen Hawking (Br)
A China Passage: John Kenneth Galbraith
 (US)
Accidental Death of an Anarchist: Dario Fo (It)
A Call to Honour: Jaswant Singh (Ind)
A Clockwork Orange: Anthony Burgess (Br)
A Critique of Pure Reason: Immanuel Kant (Ger)
A Doll's House: Ibsen (Nor)
A Farewell to Arms: Ernest Hemingway (US)
A Fine Balance: Rohinton Mistry (Ind- Can)
A Handful of Dust: Evelyn Waugh (Br)
A Heartbreaking Work of Staggering: Genius-
 Dave Eggers (US)
A House for Mr. Biswas: V.S. Naipaul (Ind-Br)
A Million Mutinies Now: V.S. Naipaul (Ind-Br)
A Midsummer Night's Dream: William
 Shakespeare (Br)
A Passage to England: Nirad C. Choudhuri
 (Ind-Br)
A Passage to India: E.M. Forster (Br)
A Prisoner's Scrapbook: L.K. Advani (Ind)
A Sense of Time: H.S. Vatsyayan (Ind)
A Strange and Sublime Address: Amit
 Chaudhary (Ind)

A Streetcar Named Desire: Tennessee Williams
 (US)
A Study of History: Arnold J. Toynbee (Br)
A Suitable Boy: Vikram Seth (Ind-US)
A Tale of Two Cities: Charles Dickens (Br)
A Thousand Days: Arthur M. Schlesinger
 (US)
A Thousand Suns: Dominique Lapierre (Fr)
A Village by the Sea: Anita Desai (Ind-US)
A Voice for Freedom: Nayantra Sehgal (Ind)
A Week with Gandhi: Louis Fischer (Fr)
A Woman's Life: Guy de Maupassant (Fr)
Absolute Friends: John le Carré (Br)
Absolute Power: David Baldacci (US)
Adam Bede: George Eliot (Br)
Adonis: P.B. Shetty (Br)
Adventures of Tom Sawyer: Mark Twain (US)
Afternoon Raag: Amit Chaudhuri (Ind)
Agni Veena: Kazi Nazrul Islam (Ind)
Albaramama: Abdul Fazal (Ind)
Alice in Wonderland: Lewis Carroll (Br)
All Quiet on the Western Front: Erich Maria
 Remarque (Ger-Sw-US)
All the King's Men: Robert Penn Warren (US)

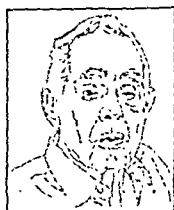
All the President's Men: Carl Bernstein (US) & Bob Woodward (US)
All Things Bright and Beautiful: James Herriot (Br)
All's Well that Ends Well: William Shakespeare (Br)
Amar Kosh: Amar Singh (Ind)
An American Dilemma: Gunnar Myrdal (Swe)
An American Tragedy: Theodore Dreiser (US)
An Area of Darkness: V.S. Naipaul (Ind-Br)
An Autobiography: Jawaharlal Nehru (Ind)
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Paris Burning?: Larry Collings (US) & Domini-
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The Miniaturist: Kunal Basu (Ind)
The Minister's Wife: Amaresh Mishra (Ind)
The Miser: Molière (Fr)
The Moon and Sixpence: W. Somerset Maugham
 (Br)
The Monk Who Sold His Ferrari: Robin S.
 Sharma (Ind-Br)
The Moor's Last Sigh: Salman Rushdie (Ind)
The Namesake: Jhumpa Lahiri (Ind-US)
*The Name of the Rose, The Mysterious Flame
 of Queen Loana*: Umberto Eco (It)
The Narrows: Michael Connelly (US)
The New American Militarism: Andre
 Bacevich (US)
The Night Manager: John le Carré (Br)
The Old Man and the Sea: Ernest Hemingway
 (US)
The Origin of Species: Charles Darwin (Br)
The Other Side of Midnight: Sidney Sheldon (US)
The Painted Veil: W. Somerset Maugham (Br)
The Pickwick Papers: Charles Dickens (Br)
The Pilgrim's Progress: John Bunyan (Br)
The Power and the Glory: Graham Greene (Br)
The Power of Positive Thinking: Norman Vincent Peale
 (US)
The Private Life of Chairman Mao: Dr. Li Zhisui
 (Chi)
The Proper Study of Mankind: Isaiah Berlin (Br)
The Rain King: Saul Bellow (US)
The Rape of the Lock: Alexander Pope (Br)
The Red Carpet: Bangalore Stories: Lavanya
 Sankaran (Ind)
The Return of the Native: Thomas Hardy (Br)

The Rights of Man: Thomas Paine (Br-US)
The Road Ahead: Bill Gates (US)
The Robe: Lloyd C. Douglas (US)
The Roots: Alex Haley (US)
The Satanic Verses: Salman Rushdie (Ind-Br)
The Second World War: Winston Churchill (Br)
The Secret Life of Bees: Sue Monk (US)
The Seven Spiritual Laws of Success: Deepak Chopra (Ind-US)
The Sheltering Sky: Paul Bowles (US-Mor)
The Shoes of the Fisherman: Morris L. West (Austral)
The Social Contract: Rousseau (Swi-Fr)
The Song of Susannah: Stephen King (US)
The Songs of India: Sarojini Naidu (Ind)
The Sound and the Fury: William Faulkner (US)
The Spirit of the Age: William Hazlitt (Br)
The Story of My Experiments with Truth: Mahatma Gandhi (Ind)
The Story of the Integration of the Indian States: V.P. Menon ()
The Strange and Sublime Address: Amit Chaudhuri (Ind)
The Struggle and the Triumph: Lech Walesa (Pol)
The Struggle in My Life: Nelson Mandela (SA)
The Sword and the Sickle: Mulk Raj Anand (Ind)
The Testament: John Grisham (US)
The Thief Lord; Inkheart; Dragon Rider: Cornelia Funke (Ger)
The Third Wave: Avin Tofler (US)
The Time of the Hero: Mario Vargas Llosa (Per)
The Total Zone: Martina Navratilova (Cze-US)
The Tree of Man: Patrick White (Austral)
The Trial: Franz Kafka (Cze)
The Trotter-Nama: Allan Sealy (Ind)
The Unfurnished Man: Nizzim Ezekiel (Ind)
The Vendor of Sweets: R.K. Narayan (Ind)
The Vicar of Wakefield: Oliver Goldsmith (Ir-Br)
The Victim: Saul Bellow (US)
The Volcano Lover: Susan Sontag (US)
The Wasteland: T.S. Eliot (US-Br)
The Way of all Flesh: Samuel Butler (Br)
The Way to Paradise: Mario Vargas Llosa (Per)
The Wealth of Nations: Adam Smith (Scot)
The White Mughals: William Dalrymple (Scot)
The World is Flat: Thomas Friedman (US)
The Zahir: Paulo Coelho (Bra)
Theory of War: Joan Brady (US)
Things Fall Apart: Chinua Achebe (Nig)
Thirteenth Sun, The: Armita Prasad (Ind)
Three Birds: Colleen McCullough (Aus)

Thousand Cranes: Yasunari Kawabata (Jap)
Three Horsemen of the New Apocalypse: Nrad C.
 Chaudhuri (Ind-Br)
Thus Spake Zarathustra: Friedrich Wilhelm
 Nietzsche (Ger-Swi)
Time Machine: H.G. Wells (Br)
Tin Drum: Gunther Grass (Ger)
Tinker, Tailor Soldier: John Le-Carré (Br)
Tokyo Cancelled: Rana Dasgupta (Ind)
Tom Jones: Henry Fielding (Br)
To Kill a Mocking Bird: Harper Lee (US)
To the Lighthouse: Virginia Woolf (Br)
Train to Pakistan: Khushwant Singh (Ind)
Transmission: Hari Kunzru (Ind-Br)
Treasure Island: Robert Louis Stevenson (Scot)
Tropic of Cancer: Henry Miller (US)
Truth, Love and a Little Malice: Khushwant
 Singh (Ind)
Tryst with Destiny: S. Gopalán (Ind)
Twelfth Night: W. Shakespeare (Br)
Two Leaves and a Bud: Mulk Raj Anand (Ind)

Ulysses: James Joyce (Ir)
Uncle Tom's Cabin: Harriet Beecher Stowe (US)
Under the Net: Iris Murdoch (Br)
Unless: Carol Shields (US)
Unsafe at Any Speed: Ralph Nader (US)
Unto The Last: John Ruskin (Br)
Untold Story: General B.M. Khan (Ind)
Up from Slavery: Booker T. Washington (US)
Utopia: Thomas More (Br)

Valley of the Dolls: ~~James Bond~~ *James Bond*
Vanity Fair: ~~W. Somerset Maugham~~ *W. Somerset Maugham*

[illegible]

Wild Swans: Jung Chang (Chin-Br)
Trains of Fire: A.P.J. Abdul Kalam (Ind)
Winning: Jack Welch, Suzy Welch (US)
Winter Solstice: Rosamunde Pilcher (Scot)
Witness to an Era: Frank Moraes (Ind)
Women in Love: D.H. Lawrence (Br)
World Within Worlds: Stephen Spender (Br)
Withering Heights: Emily Bronte (Br)

Yayati: V.S. Khandekar (Ind)
Year of the Upheaval: Henry Kissinger (US)
Yesterday and Today: K.P.S. Menon (Ind)
You Can Win: Shiv Khara (Ind)

Zen and the Art of Motorcycle Maintenance:
 Robert Pirsig (US)
Zorba the Greek: Nikos Kazantzakis (GK)

Fifty Great Books

Prof. P. Vijaya Kumari

The Analects (5th century BC) by Confucius.

The thoughts of the great Chinese philosopher and religious teacher Confucius can be found in two sets of books. The first set *The Five Classics* – are concerned with administration, history, ceremonies and arts. *The Analects* is one of the four books that make up the second set (*Ssu Shu*) all of which are concerned with ethics and philosophy. These learned fragments are divided into 20 chapters and cover various aspects like the qualities of a good government, ancient worthies, manners and morals, character and principles, virtue, the responsibilities of rulers and the qualities of his disciples. The wisdom of the ancients should be a source of guidance, Confucius constantly reminds his pupils. The cultivation of brightness and integrity, the need to build good human relationships and the need to be useful to both society and to the country are emphasised. Confucius, it can be seen, valued rational thinking, egalitarianism and altruistic behaviour. He saw himself as just a teacher transmitting the wisdom of ancient Chinese culture and not as a god or a prophet. Here is a familiar sounding gem from Book XII of *The Analects* – “What you don’t want yourself,

don’t do to others”. Like all great books, the relevance of *The Analects* is timeless.

The Republic (4th century BC) by Plato.

The Republic is the most famous of Plato’s dialogues. The speaker is Socrates and Book I starts with Socrates and his companions talking about old age and happiness and wealth. The discussion turns to justice and the conversation, which appears to be pleasant chit chat about the origin of justice and injustice in society, soon transforms itself into a full-fledged exploration of some of the central questions of philosophy. We find the typical Socratic procedure – a definition is suggested, is refuted and a counter example offered and considered. From Book II Socrates sketches the ideal republic, a place where justice would be available to all. He speaks about the nature of humanity and the classes one would find in an ideal society: aristocratic group of philosopher kings; represented reason, would rule and all citizens would do the work most suited to their education that the philosophers would to be given is described. It would include music, gymnastics, science, mathematics, the study of ideas. Different forms of government are looked at and, in Book

world – from magic to religion to science. In future, science itself might be displaced. An absorbing read, valued today more for its literary qualities than for its insights.

A Room of One's Own (1928) by Virginia Woolf.

There are endless discussions on whether men are superior to women. Male chauvinists gleefully point out that most of the great thinkers, scientists, writers and artists have been men. In this perspicuous and influential book, Woolf counters the chauvinist male by explaining why women have not produced great works of fiction. It is, she demonstrates, primarily because of lack of opportunity. Crushed by demands of family and home women have, through most of history, found it impossible to express themselves creatively. Leisure and means (or in her words "£ 500 a year and a room of one's own") are needed for women before they can come into their own. If Shakespeare had an equally gifted sister she would never have become a famous playwright. Judith (that is the name Woolf gives this hypothetical sister) would not have been sent to school and, if, like Shakespeare, she had run off to London, instead of fulfilling her artistic potential, Judith would have found herself pregnant and would probably have committed suicide. Circumstances, in other words, make people and now that for the first time in history, the circumstances are right, at least for western women, to achieve greatness they should seize the opportunity, says Woolf. One of the most eloquent books ever against prejudice.

A History of Western Philosophy (1945) by Bertrand Russell.

The 33 chapters that make up this excellent book fall into three main sections: Ancient Philosophy, Catholic Philosophy and Modern Philosophy. Russell's focus is not on individual thinkers alone, but on how philosophy shapes and is shaped by society and culture at large. So he takes great care to sketch the ethos

which gave rise to different schools of philosophy and the political and historical context in which individual philosophers are to be placed. For Russell philosophy, as opposed to theology, began in sixth century BC in ancient Greece. It fell into decline when Rome fell. Its second great period was from the eleventh to fourteenth centuries, a period dominated by the Catholic Church. The third period, from the seventeenth century, is dominated by science. Russell pays as much attention to social movements as to individuals who had impact on philosophy. For instance, there are chapters on Stoicism and the Roman Catholic Movement as there are on Rousseau and Byron. Written with his customary wit, poise, irony and immense erudition the book can be read both for profit and for pleasure. Perhaps the most stylish and readable introduction to Western philosophy there is.

Silent Spring (1962) by Rachel Carson

"There was once a town in the heart of America where all life seemed to live in harmony with its surroundings." With this almost fairy tale like beginning Rachel Carson sketched a bleak picture of what man-made chemicals, widely used as pesticide, were doing to the fragile and complex processes that keep nature going. Her education as a marine biologist and her career as a writer-scientist opened her eyes to this lethal dimension of industrial civilisation. She focused on the indiscriminate use of DDT and pointed to research that showed some alarming things about it – almost all animals on earth, even birds in areas as remote as Antarctica, now have some DDT in their flesh. The spread of this and similar man made toxins was doing slow but irreversible damage to the soil



Bertrand Russell

rivers, seas and the green mantle of plants that support all animal life on earth. She also warned about the genetic deterioration that synthetic chemicals and man-made radiation were effecting. Pointing out that the history of life on earth has been a history of interaction between living things and their surroundings Carson went on to say that if we served a chemical feast we would soon wake up to springs "when no birds sing". An intelligent and insightful book from a top science writer.

An Area of Darkness (1964) by V. S. Naipaul.

Naipaul had been born in Trinidad where his grandfather had gone as an indentured labourer. The land of his forefathers was, for him, a country



V.S. Naipaul

ended in time, a void, area of darkness". He

been brought up a Hindu but, was by ination, a sceptic and indifferent to religion. that was Hindu in him was a vague sense taste and a "horror of the unclean". In his Naipaul set out to learn about the land of forefathers. In Bombay, his first stop, he t a frightening glimpse of what he called dia's ever receding degrees of degradation" d was horrified by it. He did not find the rest the country any different. Most of the book harsh, critical and negative but it not to be smissed as a drain inspector's report. Naipaul fied travel writing with sharp analysis. He uted, for instance, how Gandhi, the evolutionary, had been transformed into a nahatma and absorbed into the formless perty and decayed pragmatism of India. By turning Gandhi into a god Indians had lost he message. Naipaul is most scathing about the people - their manners, attitudes, perty, callousness, unctuousness and even ppearance. A provocative and thought racking book.

Small Is Beautiful (1973) by E F Schumacher.

E F Schumacher, who had been by turns a farmer, a businessman and an academic, captured international attention with this evocatively titled work which "looked at economics as if people mattered." Schumacher pointed out that economists suffered from a kind of metaphysical blindness which made them assume that their's was a science of absolute and invariable truths. Their cardinal error was in treating natural capital as income, an error for which mankind would have to pay unless they rectified their economic behaviour. Schumacher advocated a "Buddhist economics" the keynotes of which would be "simplicity and non-violence". An intermediate technology that made proper use of land and other resource would, he felt, lay the ground for a sustainable future. Schumacher is considered the first holistic thinker of the Green movement and even today, in an age obsessed with growth and a mania for high-tech solutions, his picture of a humane alternative to rampant capitalism is as relevant, and persuasive, as when it was first outlined.

The Decline of Nair Dominance (1976) by Robin Jeffrey.

When Vivekananda visited Kerala in the 1890s he famously described it as a lunatic asylum. Less than a century later it had become a model state. How did this transformation come about? It is this intriguing question that is behind Robin Jeffrey's landmark study *The Decline of Nair Dominance*. Jeffrey tells us about the social and political changes Kerala underwent and shows how a feudal, matrilineal, caste-ridden society segued into a modern, democratic, literate state that put in power the world's first elected communist government. A careful reading of source material and a methodical analysis enables Jeffrey to paint a picture of change caused by the rise of a cash economy, western-style education, improved transport and communication.

the setting up of a British-inspired system of law. It is also the story of how the Nairs, who fitted in perfectly with Louis Dumont's definition of a "dominant caste", were brought down from their position of comfortable superiority over other castes to having to compete with them. Thirty years after its first publication this book still is the most astute and readable study of social change in Kerala.

Russian Thinkers (1978) by Isaiah Berlin.

This collection of seven essays by the political philosopher and historian of ideas Isaiah Berlin includes his celebrated piece 'The Hedgehog and the Fox'. For Berlin the hedgehog is a metaphor for those writers who relate everything they do and say to a central vision, while foxes stand for those whose vision is plural and contradictory. Though reductive and simplistic, Berlin felt that this categorisation was a handy way of grouping and understanding writers. Tolstoy was, for Berlin, a fox, while Dostoevsky was the quintessential hedgehog. The other essays in the volume include one on the birth of the Russian intelligentsia, the influence of German romanticism on Russian thinkers, the impact of the 1848 revolts in France on Russia and on individual Russian thinkers like Alexander Herzen, Vissarion Belinsky and Mikhail Bakunin. To each Berlin brings his characteristic clarity and profundity. For those who love ideas, every essay is a treat. The ideas themselves are significant because, as Berlin clearly shows, they still animate our intellectual world.

Life on Earth (1979) by David Attenborough.

This is one of the early books of one of the planet's most famous documentary makers on natural history. It presents a fascinating picture of animals; how they live, find their food, defend themselves, court and fit in with the rest of the natural world and also on the role they have played in shaping the history

of life on the planet. Attenborough tells us that readers risk imagining an appeal of purpose on the animal kingdom that not exist in reality. Millions of species become extinct and Attenborough tries to enlighten us about their roles by looking at their present day descendants. The last of the 13 chapters - 'The Compulsive Communicator' - is on man. Attenborough's extraordinary ability to make connections will leave the reader spellbound. An example: he describes the feather, the most distinguishing feature of a bird, and then shows how the same material forms a reptile's scales and our own nails.

The Moronic Inferno (1980) by M. Amis.

This is a collection of 26 witty and perceptive essays on the USA which, in a metaphor he borrowed from Saul Bellow, Martin Amis calls "the moronic inferno". America has always excited and frightened him, says Amis, and he thinks it is a place one must understand if one is to understand the modern world. With a keen and observant eye and a fine turn of phrase Amis sketches the madness and wildness of America. He has comments on writers like Bellow, Truman Capote, Norman Mailer and John Updike. There is also one on the pioneering feminist Gloria Steinem and another on a meeting with Hugh Hefner, publisher of Playboy magazine. He looks at the violence that was endemic in America in the 1980s as well as the impact of AIDS on society. Amis notes that the moronic inferno is not just a metaphor for America today, it is a metaphor for human infamy, "mass, forever-distressing human infamy" which he thinks is both global and eternal. Amis contemplates the frightening possibility that since every country will become like America. If the moronic inferno will cease to be a metaphor and will become a reality; probably the only reality. That might be a bleak message, but the book is an exhilarating read.

Cosmos (1980) by Carl Sagan.

One of the things that has most fascinated mankind at all times has been the shape and nature of the universe he inhabits. Most creation myths have tried to solve this riddle. At the opening of *Cosmos* Sagan tells us that "we have discovered a powerful and elegant way to understand the universe, a method called science; it has revealed a universe so ancient and so vast that human affairs seem at first sight to be of little consequence." But science also says that we are a part of this cosmos and that our fate is connected with it. It is this cosmic perspective that Carl Sagan investigates in *Cosmos*. He discovers the grandeur of the universe and the grandeur of our attempt to understand it. In the last tenth of a percent of the lifetime of our species we've acquired the knowledge to understand and describe the earth and also to destroy the earth and extinguish mankind. Never was there greater need for wisdom and Sagan concludes the book with a stocktaking and a peep at our uncertain future. Children, and the child in adults, will find this book most engrossing.

The Inner World (1981) by Sudhir Kakar.

This book is a praiseworthy attempt to understand the Indian psyche by examining the individual, social, cultural and historical dimensions involved in shaping it. There is an emphasis on individual psychological development, understandable since Kakar is a practising psychoanalyst. He pays attention to the network of social rules, traditional values, caste customs and kinship regulations involved in creating a sense of identity. His approach is eclectic and he uses the findings and ideas from anthropological accounts, sociological studies, folk tales, mythology, historical reflections and his own clinical impressions. Pointing out that psyche and culture mutually reinforce each other Kakar gives special importance to the analysis of clinical evidence and interpretation of myths. He fears

that Indian culture will soon find itself entrapped in a field of critical environmental stresses and is unsure how it will cope. But Kakar ends with a positive message: the traditional Indian identity elaborated in the book can evolve in such a way that both its historical continuity and its integration with a changing environment are maintained. A fine, unparalleled, attempt to understand the Indianness of Indians.

Spin and Other Turns (1994) by Ramachandra Guha.

Some sections of India's intelligentsia look down on cricket as a vestige of colonialism. Other sections champion hockey and football. But it is a fact that Indians play this quaint and fascinating game with aplomb and that India is one of the world's cricket superpowers. Few have written on Indian cricket with the intelligence, knowledge, insight, and charm of Ramachandra Guha. He brings to bear on his analysis of cricket the erudition and meticulousness of a professional historian and sociologist and the love of a practitioner and fan. *Spin and Other Turns* is about Indian cricket in the 1970s, when it really came of age. This was when India defeated both the West Indies and England away from home and thus laid the foundation for her triumph at the World Cup in 1983. Guha identifies two great traditions of Indian cricket — the art of slow bowling and the Bombay school of batsmanship. Sections are devoted to "the Holy Trinity" of Bedi, Prasanna and Chandrasekhar and also to the first great Indian spinner — Palwankar Baloo, a dalit who was held as a model by B R Ambedkar. Among the batsmen Guha devotes space to are Gavaskar, Merchant and G R Viswanath. A delightful book.

My Own Country (1994) by Abraham Varghese.

The book opens with a dramatic of a young man returning home to town of Johnson City, Tennessee from

York, where he had been working. The man is critically ill and soon dies. This is the first death of AIDS in Johnson City. But soon, the city and Dr Varghese, the infectious disease specialist in Johnson City, have to take care of other patients with AIDS. The experience transforms Varghese, who, like so many others of the Indian diaspora, was looking for a place he could call home; for "his own country". Born and educated in Ethiopia, Varghese had earned his medical degree from Madras Medical College and found his American experience nurturing both professionally and personally. But nothing had prepared him, or Johnson City, for the devastation AIDS was to wreak. As Varghese narrates the story of his doomed patients we learn about illness, courage, compassion, prejudice, hope, mortality, love, yearning, greed, renunciation, pain and even the good life. Against this larger background Varghese softly weaves in the touching story of the falling apart of his personal life. Varghese's unique status as an exile helped him empathise with his ostracised patients and his exceptional narrative skill and graceful prose make *My Own Country* a beautiful and healing work. In many ways it tells a sad story, but our understanding of disease and death, of AIDS and its dreadful power and, therefore, of the 20th century itself, would not be complete without this masterly narrative.

Gandhi (1997) by Bhikhu Parekh

Bhiku Parekh's slim volume is no hagiography but an intelligent assessment of the thoughts and deeds of one of the greatest men who ever lived. It begins with a brief look at Gandhi's life and work. Parekh then turns to Gandhi's thoughts on religion, politics, human nature and his concept of ahimsa. Gandhi's vision of a non-violent world and his weighty critique of modernity are then examined. The link between Gandhi's life and his actions and his constant, courageous quest for truth and his obsessive attempts to

live by his principles are described. Parekh is even handed and identifies Gandhi's limitations as well. His failure to appreciate science and modernity, his imperfect understanding of how societies function and how evil can transform the world, his utopian ideas on economics, his insensitivity to art, history, nature etc are all ascribed not to lack of intellectual curiosity but Gandhi's intensely moralistic vision of life. It was a vision that prevented him from having interests other than the full time care of his soul and the interests of his countrymen. Lord Parekh's book is the perfect introduction to Gandhi, the man and his ideas.

The Adversary (2000) by Emmanuel Carrere

How many lies can a man tell?

On January 9, 2003 Jean-Claude Ramond's house, in northern France, burned down killing his wife and two children. He himself barely managed to survive. Ramond, a pillar of the local community, was a respected researcher and doctor who had been working in a WHO lab in nearby Geneva. The same day his parents, and their dog, were found dead at their home fifty miles away. Police investigations soon showed that this was no tragic coincidence. Ramond himself had killed his parents, then his wife and children and then set fire to his house. Police also found that Ramond had been leading a double life for over two decades. He was no doctor. Indeed he had not even finished his medical education. He drove to "work" every day but spent his time in parks and libraries. He borrowed money from relatives and friends promising to invest them in high interest yielding schemes available to him as a WHO professional. Finally, when it was clear his lies would catch up with him, he sought a way out through murder. Emmanuel Carrere, one of France's most critically acclaimed writers, in a gripping narrative, tells us this true story of monstrous deception. But even he has no explanation

for why Ramond acted as he did. That explains the title. The adversary is one of the pseudonyms for the devil.

How many lies can a man tell? Many, but not an endless number.

On Literature (2002) by Umberto Eco.

Knowledge, Eco suggests, is of two kinds —that which tells you about the outside world and that which wins you promotions at universities. Umberto Eco, novelist, intellectual, cultural critic, medievalist, scholar and professor of semiotics at the oldest university in the world (University of Bologna) has a passionate concern for real knowledge and a canny sense of how difficult it is to attain it. His writings are full of remarkable insights into life and literature. This volume is as engrossing as any of his other works of non-fiction as, with charm and wit, he looks at the world of writers and writing. He brings great clarity to a variety of subjects including the nature of prose and poetry, on why we read and why some people write, on America and anti-Americanism, on tragedy, the detective story, irony and metaphor, symbolism, paradox, computers and literature, history, post modernism, conspiracy theories and on how he writes his novels. The best of the lot is perhaps the erudite yet playful piece titled 'The Power of Falsehood'.

How to Be Alone (2002) by Jonathan Franzen

The essays in this volume celebrate being a reader and a writer. Franzen is aghast at the amount of outrageousness being manufactured in the USA and at a world where the voices of self and commerce are drowning out all other voices. He sets out to address the problem of preserving individuality and complexity in a noisy and distracting mass culture. That, for Franzen, is the problem of how to be alone. He thinks the problem is related to the act of reading, for reading sparks the imagination unlike use of other types of media like television or multimedia.

The decline of reading is not just a shift in our change of entertainment but, Franzen suspects, a transformation of the very nature of humanity. In the contemporary world, we have "instead of a soul, membership in a crowd" and "instead of wisdom, data." Essays on the postal system and new prisons, written with humour and charm, demonstrate how the civic has become the commercial. In "Meet me in St Louis" Franzen explains why he declined to be on Oprah Winfrey's Book Club, an act that earned him much public opprobrium. It was, for Franzen, as much about preserving his dignity as about the bogusness and superficiality of TV. An elegant, clear eyed and wise book.

The Emerging Mind (2003) by Vilayanur Ramachandran

The five essays in this volume (originally the 2003 Reith Lectures) were written with the intention of making neuroscience and psychophysics more accessible to a broad audience. In the first 'Phantoms in the Brain' Ramachandran looks at some rare neurological syndromes and demonstrates how it is possible to learn about the working of the normal brain from these neurological oddities. The second 'Seeing is Believing' in on the role of "mirror neurons" in the evolution of culture. The third 'The Artful Brain' is on neuroaesthetics and here he spells out his "10 universal laws of art". The fourth essay 'Purple Numbers and Sharp Cheese' in on synesthesia as sensory phenomenon whose neural basis can be discovered in the brain and which can help us understand metaphor and the evolution of language. The last 'Neuroscience' the new philosophy' is on mental illness and Ramachandran's hope for the future of his subject. The essays, when read with the copious footnotes that accompany them, could be an eye opener.

Occidentalism (2004) by Ian Buruma and Avishai Margalit

Edward Said's 'Orientalism was such a

phenomenonal success that most of its contentions went unchallenged and are today accepted as facts. But prejudices and stereotyping are not just characteristic of the Western view of the East. They also mark the Oriental views of the West and are, like the white man's prejudices, based on ignorance, misunderstanding and stupidity. In six brief but cogently argued essays Ian Buruma and Avishai Margalit look at the origins of Occidentalism, or the Eastern view that the West is decadent and dehumanising. They discover that the roots of the hatred of the West lie in the West itself. Many of the ideas that inform Occidentalism came from the German and Russian reactions to the Enlightenment; some, like the myth of the sinful city and the martyr cult that saw liberal democratic societies as weak and corrupt and anti-heroic, have more ancient roots. In other words, the roots of 9/11 lie deep in the past and in Europe itself. An eye-opener.

The Arthashastra (between 3rd century BC and 2nd century AD) by Kautilya

This is the mother of all treatises on economics and politics and statecraft. For Kautilya "arthashastra" is "the science of wealth and welfare". Kautilya destroyed the weak Nanda dynasty and installed Chandragupta Maurya on the throne of Magadha. He believed that, using the principles set out in his treatise, it was possible to set up an ideal kingdom. *The Arthashastra* is an incredibly detailed guide in 15 chapters. The topics dealt with include the branches of knowledge, the constituents of the state and the threat to them, the duties of a king, revolts, rebellions, conspiracies, treason, the bureaucracy, revenue, duties of different officials, punishment of corrupt officials, all aspects of the legal system, occult practices, covert operations, foreign policy and war. Behind the apparent cynicism lay the desire to ensure the welfare of his people; a good king had to maintain law and order and run an efficient administrative machinery.

A Brief History of Time (1988) by Stephen Hawking

Theoretical physics, and the mathematics needed to understand it, seemed outside the ken of most people. Stephen Hawking decided to present, without any mathematics or formulae, a picture of the universe that intelligent laymen could grasp. The result was the surprising bestseller *A Brief History of Time*. Hawking begins with the premise that the universe is governed by natural laws that we can discover and understand. There are chapters on space and time, the expanding universe, the uncertainty principle, the forces of nature (especially gravity), elementary particles, black holes and the origin and fate of the universe. The book also contains a glossary and portraits of Galileo, Newton and Einstein. In a moving conclusion Hawking expresses the hope that soon it might be possible to unify the laws of physics. If that happens we will have discovered a complete theory of the universe or, in Hawking's words, "know the mind of God".

The Poverty of Historicism (1957) by Karl Popper

Popper uses "historicism" to mean the belief that historical events are governed by laws. He thought that such a faith in the inexorable laws of historical destiny had led, in the 20th century, to the rise of both fascist and totalitarian states which had, in the name of progress, killed millions. Popper refuted historicism by pointing out that the course of human history was strongly influenced by the growth of human knowledge. He pointed out that it is impossible to predict the growth of scientific knowledge and so, he reasoned, it is not possible to predict the future of human history. Historicism rose out of a mistaken understanding of the methods of the natural sciences and represented a misguided effort to copy these methods. Popper, acclaimed for his anti-authoritarian social and political philosophy, examined the roots of these be-

iefs in his two volume classic *The Open Society and Its Enemies*.

Meditations (167 AD) by Marcus Aurelius

Marcus Aurelius became the emperor of Rome in A D 138, at 17. It was an unhappy reign, troubled by rebellion, natural disasters and war. *Meditations* is a set of earnest jottings he made. The first book is on himself. In it he considered what he had learned from others. The rest of the 12 books are in the form of musings about a number of subjects and earnest exhortations to himself. He thought it important to understand the nature of the world and his part in it. He considered the fleeting nature of time, the soul, the judicious use of one's time on earth, God, the good life, duty, justice and other topics. Self-discipline and temperance and a calm acceptance of the inevitability of death, he believed, could give one peace of mind. All his thoughts are marked by moderation, gentleness and the stoicism for which he was famous.

The Life of Samuel Johnson (1791) by James Boswell

Dr Samuel Johnson was the most famous intellectual and man of letters of his time. James Boswell, an admirer of Dr Johnson and a writer of no mean ability himself, set himself the task of writing a definitive biography of his hero. The result was what was considered the greatest biography of all time. Apart from recording the details of Dr Johnson's life, Boswell also painted a detailed picture of several other luminaries of the time, like Sir Joshua Reynolds, the painter, David Garrick the actor, Burke the orator, and Oliver Goldsmith, the writer. Long conversations on art and philosophy are recorded as are a number of letters written to and by Johnson. The result is an unrivalled portrait of an age, when people spoke much and were outspoken and the notion of political correctness did not exist, and a model biography.

The Varieties of Religious Experience (1902) by William James

James offers a psychological view of religion in the 20 essays of this book. He examines personal religious beliefs, not organised religions. He is struck by the fact that the unseen world, which is psychologically important to the subject who experiences it, is more powerful than the material world. He then looks at how optimistic and pessimistic people respond to religious experience. The "completest" religions are those in which the pessimistic elements are best developed. The best of these are Buddhism and Christianity. James then examines the conflicts experienced by the "twice born" or sick souls and looks at the phenomenon of moral conversion among believers. He then turns to saintliness, its qualities and usefulness. Before concluding James also looks at mysticism and the relationship between philosophy and religious experience. At a time when thinkers were declaring religion dead James's masterly study explained why humans would always be religious.

The Decline and Fall of the Roman Empire (1776 – 1788) by Edward Gibbon

This is a grand history of Rome, from 180, when Marcus Aurelius's reign ended, to 1590, when Constantinople fell. In clear and sonorous prose Gibbon narrated the story of the fall of one of the greatest empires the world had seen and of which he was an admirer. Gibbon identified four reasons for the ruin of Rome: natural calamities; the hostile attacks of the barbarians from the North and the hostility of Christians within the empire; the abuse of the material wealth of Rome and the domestic quarrels of the Romans. The work is characteristic of the Enlightenment of which Gibbon was a representative and reflects his anti-clerical and rational inclinations. His use of carefully footnoted sources makes him one of the first modern historians, while the magnificence of his theme and style make this

work one of the greatest literary works of all time.

The Argumentative Indian (2005) by Amartya Sen

It is a blinkered view of history, argues Sen, which makes us assume that democracy and

secularism, and also ideas like tolerance and those of science, are imports from the West. Sen shows that the tradition of debate and dissent, pluralism and heterodoxy has informed India from the early days of her history.

It is because India has such a rich argumentative tradition that Westminster style parliamentary democracy took roots in India so easily, while it failed in most countries which were also subject to British colonialism. This collection of essays also has wonderful pieces on Indian calendars, the relationship between India and China and India and the nuclear bomb. This book will help every Indian understand the history of our land, the components of its culture and the sources of or sense of identity. Sen shows how India, with its rich intellectual and artistic tradition was always shining.

The Selfish Gene (1976) by Richard Dawkins

Dawkins believed that Darwin was the first thinker to put together a coherent and tenable account of why we exist. In *The Selfish Gene* he set out to examine one aspect of evolutionary theory – the biology of selfishness and altruism. His argument is that as animals we are all machines created by our genes. Our genes themselves are the fundamental units of selection and to be successful a gene has to be ruthlessly selfish. But genes survive by fostering a form of altruism at the level of individual animals. To understand the evolution of modern man we must throw out the gene as the sole basis of evolution. Cul-

ture is spread through a new replicator the “meme”. Memes are, like genes, blind but Dawkins insists that our conscious foresight could save us for the worst excesses of these blind replicators. Nice guys, he says, can finish first.

The Interpretation of Dreams (1900) by Sigmund Freud

As a doctor searching for a cure for his neurotic patients Freud discovered the unconscious. He believed that this irrational, chaotic and unknowable part of our mind – the unconscious – dictated how we behaved. Dreams, he theorised, gave a therapist access to this world and the conflicts that lay there. A patient could be cured if his conscious mind could be made aware of the nature of the conflict tearing it apart. Freud did not cure many patients this way, but the “talking cure” and the book that introduced these ideas to the public, gained immense popularity. In individual chapters he looked at the method of dream interpretation, dreams as wish-fulfilments, the source of dreams and the psychology of dream processes. The ideas in the book shaped the way men saw themselves and so this book is considered one of the seminal works of the 20th century.

The Uses of Literacy (1957) by Richard Hoggart

“Work is the curse of the drinking classes” said Oscar Wilde. The image of the working classes as lazy, criminally inclined and liquor loving is an old and widespread one. Hoggart, in *The Uses of Literacy* tried to find out what real working class culture was like. He studied their reading and listening habits and came up with a fascinating and detailed picture of working life and culture. He found that they were a gregarious and warm people whose



Amartya Sen



Sigmund Freud

lives were built on the twin values of love and work. Their sense of independence and loyalty to their class is reinforced by their division of the world into 'Them' and 'Us'. The second half of the book is a less than happy look at how organised commercial interests and the mass media were corrupting authentic working class culture. One of the classics of cultural studies.

The Greatest Benefit to Mankind (1997) by Roy Porter

With 22 chapters, 24 pages of plates, 46 pages of "further reading" and a 66 page index this is a thorough look at the medical history of humanity from antiquity to the present. A finely balanced and neutral tone is maintained throughout and the charge of ethnocentricity deftly avoided with chapters on Chinese, Indian and other systems of medicine. The information packed and readable account is the story of a million small steps taken to take modern medicine to where it currently is – its standing is high but also highly contested. Never has it achieved so much or attracted such great suspicion. Today medicine is a profitable source of business for lawyers, accountants and other expensive professions parasitical upon medicine. Its future, concludes Porter, is unforeseeable because the evolutionary battle between microbes and man is itself unpredictable.

Guns, Germs and Steel (1997) by Jared Diamond

When a hunter-gatherer from New Guinea asked Diamond why some parts of the world were so advanced while others were primitive he decided to find the answer for himself. Pushing back the chain of historical causation as far as possible Diamond discovered that the answers came from geography. Patterns of history and the current state of the world can be explained by understanding environmental and geographical conditions. These conditions include the availability of plants and animals that could be domesticated,

which led to agriculture which in turn led to the development of technology. The east-west axis of land mass led to evolution and growth while the north-south axis and the environmental variation it provided meant stagnation. Diamond is careful not to make a claim without some scientific backing for it. He ends the book with an invigorating chapter on the future of human history as a science.

The Beauty Myth (1991) by Naomi Wolf.

The cause of women's liberation, after several decades of progress, might soon be wrecked on the rock of concern with women's "beauty"; such things as "physical appearance, bodies, faces, hair, clothes." Women in the West are now worse off than their grandmothers because they are now weighed down by notions of beauty. The use of images of female beauty against women is a political backlash against feminism, feels Wolf. Myths of motherhood, domesticity, chastity and passivity were used to control women. Those forms of social coercion have been replaced by the ideology of beauty. Every gain made by feminism is being undermined by the beauty myth. Wolf's most spirited chapters are on anorexia and cosmetic surgery. Wolf ends the book with a call for a third wave of feminism.

Outcaste (2002) by Narendra Jadhav

This moving and inspirational book narrates the story of four generations of the Jadhavs. Damu and Sonu, the author's parents, had fled their ancestral village of Ozar in Maharashtra and sought refuge, and employment, in Bombay. Living in chawls and workers' quarters the two raised a family of six kids who became successful; Narendra got a Ph D from the US and became head of the economics research wing of the RBI, and his siblings entered the IAS. The struggles of Damu and Sonu and the iniquities of the caste system are described vividly but without rancour and hatred. Parallel to the narra-

tion of the story of the Jadhavs is the rousing tale of the transformation of the lives of dalits brought about by Dr B R Ambedkar's exhortation to educate, organise and struggle. *Outcaste* is artfully written and an important contribution to understanding the social changes India witnessed in the 20th century.

Nature's Numbers (1995) by Ian Stewart

What can mathematics tell us about the universe? A great deal, it would appear. In this lucid and beguiling account Stewart shows how mathematics can be a tool to discover and describe order and pattern in the universe. The natural world is full of patterns. Examples include the structure of an atom, the number of petals in a flower, the patterns on the sand dune in a desert, the shape of a droplet, the shape of the galaxies and the universe itself. Sections are devoted to the great astronomical discoveries, Fibonacci's series, chaos theory, the butterfly effect and other such apparently esoteric stuff. Stewart makes all these accessible to even those with non-mathematical minds. Nature is both about rigid laws and flexible change and the science of mathematics will help us understand both.

White Mughals (2002) by William Dalrymple

From 1797 to 1805 James Kirkpatrick was the British Resident at Hyderabad. Here he adopted Indian ways, fell in love with and married the great niece of the diwan. His wife, Khair un-Nissa, was only 14 and their love affair was a scandal that threatened to derail the relationship between the British and Hyderabad. James's conversion to Islam and his pro-India ways were not always approved by his superiors even when his services as a diplomat were valued. In 1805 he sent his two children to England to be educated but himself died in Calcutta. Khair travelled to Calcutta to visit his grave.

She never saw her children again and died in Hyderabad in 1813. Apart from the great appeal of this story, what makes Dalrymple's work unique is the insight he provides into the mixture of cultures that goes against all notions of the East and the West being irreconcilably different.

Consilience (1998) by Edward O Wilson

E O Wilson coined the word "bio-diversity", is the father of sociobiology and one of the greatest zoologists in the world. When young he dreamt of the unification of learning. His boldest attempt to bring about such a unification is *Consilience*. Consilience is the "linking of facts and fact-based theory across disciplines to create a common groundwork of explanation." This idea goes back to the Enlightenment and implies that the universe is orderly and can be understood by a small number of natural laws. It is not only the sciences that Wilson hoped to unify, but the social sciences and even the humanities. There are chapters devoted to the mind, genes and culture, the social sciences, the arts and ethics and religion. He concludes that "all tangible phenomena, from the birth of the stars to the workings of social institutions, are based on material processes that are ultimately reducible ... to the laws of physics."

Chasing the Monsoon (1991) by Alexander Frater

This humorous and very readable narrative begins with a chapter on Frater's childhood in Micronesia and his fascination with the rains. A chance encounter in London reminds him of the Indian monsoon and, spurred by his father's unrealised ambition of visiting Chirapunji during the rains, he decides to "chase" it. He meets it at Trivandrum and follows it to Cochin, Goa, Bombay, Delhi, Calcutta and, finally, Chirapunji. The book is filled with anecdote, history, the physics of the weather and genial observations on India and her people. Chirapunji was out of bounds to foreigners and, though not hopeful of

success, Frater applied for special permission to visit it. Frequent references to the progress of his application though the bureaucratic pipelines of Delhi lend some tension to the book and the narrative climax is reached with a visit to a wet and hostile Chirapunji.

The End of History and the Last Man (1992) by Francis Fukuyama

Fukuyama says that history as an evolutionary process has come to an end i.e., one cannot conceive of a better system of government than liberal democracies of the West, though much of the world is still "living in history". The idea of a Universal History was first proposed by Kant and later taken up by Hegel. Scientific knowledge is what lends history directionality. Now that science has been discovered, there will be no forgetting or going back and its political, economic and social consequences—liberal democracy, capitalism and a society defined by technology—are inevitable. Fukuyama rejects the Marxist view of history and examines the ideas of Hegel, Hobbes and Locke. Man's need for recognition (thymos) is a strong driving force and since the only political system that satisfies it is democracy, Fukuyama concludes that capitalist, liberal democracy is the way of the future. Provocative but cogently argued.

The Language Instinct (1994) by Stephen Pinker

Understanding language, Pinker thinks, is the key to understanding human nature and he deploys the tools of cognitive science to do so. Language is not a cultural artefact, but a biological adaptation to communicate information—an instinct to acquire an art. Pinker rejects a number of traditional notions about language and learning. He shows that languages do not shape the way we think or even make thinking possible, that grammar does not have to be taught to children, that the language instinct is the same in most people and that it is distinct from the ability to process information. Some of his ideas come

from Chomsky and there is a lucid explanation of these in one chapter. There are also chapters on language families, phonetics, structure and grammar, the misplaced notions of "correct English" and the false claims that chimps had been taught language. A witty introduction to linguistics.

The Story of My Experiments with Truth (1927-1929) by M K Gandhi

Gandhi was not writing a Western style autobiography, he said, but telling the story of his experiments with truth. He saw his life as consisting of these experiments and believed that his readers would also be interested in them. All his experiments were spiritual for he saw morality or spirituality as the essence of religion and his aim was to achieve self-realization. The book, divided into five parts, is chronologically arranged and methodically narrated. In 147 small chapters, they tell the story of Gandhi's life from his birth to the Nagpur session of the Congress. Whether writing about his almost ridiculously small number of "sins" or satyagraha or the agitations he participated in or his experiences in Europe and South Africa or his diet or ahimsa or celibacy or "other principles of conduct believed to be distinct from truth" his quest was always for the truth and his narration deeply engaging.

Prophets Facing Backward (2004) by Meera Nanda

This robust defence of Enlightenment values examines the role of the religious right in India and how post-modernism has skewed people's ideas of science. The schizophrenia of those Indians who have embraced a dangerous form of "reactionary modernism", and embrace technology without accepting the modernization or secularization of cul-



Mahatma Gandhi

tural categories that should accompany it, is responsible for this sorry state of affairs. The dangerous relativism accepted by postmodernists feeds the fascist and chauvinistic ideology of the Hindutva brigade. Passionate yet cogent Nanda calls for a resumption of the Enlightenment quest. These traditions are not alien to India. The Buddha's teachings pointed to the suppressed traditions within Indian culture that value naturalism and empiricism over the metaphysical flights of Vedantic Hinduism. Amdedkar's call for a scientific temper and a democratic ethos is a restatement of this tradition. A critique of Indian intellectuals and a powerful plea for egalitarianism, rationalism and humanism.

Manifesto of the Communist Party (1848) by K. Marx and F. Engels

"A spectre is haunting Europe – the spectre of Communism." So begins the most famous of all political essays. The first section "Bourgeois and Proletarians" declares that all history is the history of class struggles. Oppressor and oppressed have always fought each other and new classes and alignments have risen. The modern bourgeois society that has arisen on the ruins of feudal society has created new conditions of oppression. The working class create wealth, but the profit goes to the capitalist. The proletariat, or new working class, have to seize power from the bourgeoisie to bring about a worker's paradise. Central to the manifesto is the idea that private property has to be abolished. There is a section on the relationship of Communists to proletarians and another on the position of the Communists and other opposition parties. The thesis might be flawed but for sheer rhetorical power the *Manifesto* is unrivalled.

The Autobiography of an Unknown Indian (1951) by Nirad Chaudhuri

If one of the marks of an intellectual is to

take positions that others would not, Cahudhuri is one of India's leading thinkers. He dedicated his autobiography to the British empire because "all that was good and living within us was made, shaped, and quickened by the ... British rule." The four sections that make up this volume are on his childhood, his first twelve years, his education and his struggle to build a career as a writer. But their chief interest is in the panoramic view they present of India between 1897 and 1921. The book closes with an essay on Indian history where he outlined his theory that Indian culture has bloomed only when she had mixed with some foreign culture. This book and the sequel, *Thy Hand, Great Anarch*, show him to be a profound scholar, a forceful writer and an unorthodox thinker.

Orientalism (1978) by Edward Said

Few recent books on culture have had the impact of Edward Said's *Orientalism*. Making use of Michel Foucault's notion of a discourse, Said looks at Orientalism as a Western style for dominating, restructuring and having authority over the Orient. In post-Enlightenment Europe a systematic discipline was set up by which European culture was able to produce and manage the Orient. The act of description itself is, Said avers, an exercise in power. Europe gained in strength and identity by setting itself off against the Orient. Orientalism became an academic tradition and a habit and made every European narrowly ethnocentric, racist and imperialist. Early in the book Said examines Orientalism in the light of British and French experience of Islam and Arabia. Another chapter looks at 19th century writers, like Marx and Renan and Flaubert, and their role in consolidating Orientalism. The book closes with a look at how latent and manifest Orientalism operate now. This angry polemic against Western prejudice won Said an immense following and raised him to the position of the chief spokesman of the third world in America.

World Cinema: 100 Great Movies

Prof. Joseph Mathew, Palai

Great films can't be measured scientifically because greatness is extremely subjective. Over a long period of time film critics, reviewers and fans are making lists of best films, great films and favourite films.

In this selection of 100 great films of World Cinema, 50% are from Hollywood (American productions). The remaining films are from other countries like Great Britain, France, Italy, Sweden, Poland, Japan and so on. Some are classics, masterpieces, Award winners and even Box-office super hits. These films have the power to entertain, enchant, inform and move us emotionally and change our perception of things. Silent movies are omitted in this selection.

Also Indian movies were not considered in this list.

The Adventures of Robin Hood

(1938) USA 105 mins **Director:** Michael Curtiz and William Keighley **Cast:** Errol Flynn, Olivia de Havilland, Basil Rathbone, Claude Rains, Melville Cooper, Ian Hunter, Alan Hale, Eugene Palette.

The first technicolored version of the Robin Hood legend. This classic presents Errol Flynn at his swashbuckling best. This good natured, extravagant adventure epic still packs romance, comedy, great sword play action, music and colorful characters. Winner of Three Academy awards.

All About Eve

(1950) USA 138 mins **Director:** Joseph L. Mankiewicz **Cast:** Bette Davis, Anne Baxter, George Sanders, Hugh Marlowe, Marilyn Monroe, Thelma Ritter, Celeste Holm.



The behind-the-scenes world of the Broadway theatre is the subject of this classic. The cynical and witty screenplay features full blooded characters. Its narrative structure continues to inspire back stage dramas. Winner of Six Academy awards.

The African Queen (1951) USA 106 mins **Director:** John Huston **Cast:** Humphrey Bogart, Katharine Hepburn, Robert Morley, Theodore Bikel, Peter Bull.

Set in German East Africa at the beginning of World War I this magnificent comedy tells the tale of an unlikely romance between a hard-drinking middle-aged mail boat skipper and a priggish spinster missionary. Academy award for best actor to Humphrey Bogart.

An American in Paris

(1951) USA 113 mins **Director:** Vincente Minnelli **Cast:** Gene Kelly, Leslie Caron, Nina Foch, Oscar Levant, Georges Guetary.

This delightful Hollywood fantasy with its romantic vision of Paris was shot entirely on the MGM studio lot. With lavish sets and costumes and a superlative cast, it is a superb movie entertainment. One of the most celebrated musicals of 1950s. Winner of Six Academy awards.

Ashes And Diamonds (1958) Poland 102 mins **Director:** Andrzej Wajda **Cast:** Zbigniew Cybulski

The chief character is a Polish partisan who is unable to understand why the killing must continue after World War II is over. The film is the clearest expression of Wajda's fascination with the bitter aftermath of war and the intellectual contradictions war creates.

Aguirre, The Wrath of God

(1972) Germany, Mexico, Peru 93 mins **Director:** Werner Herzog **Cast:** Klaus Kinski, Rojo, Ruy Guerra, Del Negro, Peter Be

This epic historical drama is the story

expedition of the Spanish conquistador Gonzalo Pizarro in the impenetrable jungles of Peru. In his mad pursuit for riches, Pizarro orders a party to scout ahead for signs of El Dorado. Wading through the treacherous waters by a raft, the explorers are besieged by hostile natives, disease and starvation. Crazy with greed and mad with power Aguirre takes over the enterprise slaughtering any one who opposes him. Nature and Aguirre's unquenchable thirst for glory ultimately render him insane, in charge of nothing but a raft of corpses and chattering monkeys.

Amarcord (1974) Italy/France 123 mins
Director: Federico Fellini **Cast:** Puppella Maggio, Magali Noel, Armando Brancia, Ciccio Ingrassia, Luigi Rossi, Nandino Orfei, Bruno Zanin

This landmark film is based on director Fellini's reflections of his youth in a small town in prewar Italy. Winner of Academy award for Best foreign language film.

All The President's Men (1976)
USA 135 mins **Director:** Alan J. Pakula **Cast:** Dustin Hoffman, Robert Redford, Jack Warden, Martin Balsam, Jason Robards, Jane Alexander, Hal Holbrook, Meredith Baxter.

The Watergate scandal - as exposed by Washington Post reporters Bob Woodward and Carl Bernstein meticulously transferred to the screen by Alan Pakula and proving that politics, providing they are sensational enough, can be both a critical and box-office success. Winner of Four Academy awards.

Annie Hall (1977) USA 94 mins **Director:** Woody Allen **Cast:** Woody Allen, Diane Keaton, Tony Roberts, Shelley Duvall, Carol Kane, Paul Simon.

Autobiographical urban romantic comedy by Woody Allen following the up down relationship between a neurotic night club comedian and a young midwestern singer who meet, fall in love, quarrel and finally break up. Winner of Four Academy awards.

Apocalypse Now (1979) USA 153 mins **Director:** Francis Ford Coppola **Cast:**

Marlon Brando, Robert Duvall, Martin Sheen, Frederic Forrest, Albert Hall, Sam Bottoms, Harrison Ford, Scott Glen, Dennis Hopper.

The most realistic account of the physical and psychological horrors of the Vietnam War; an updating of Joseph Conrads' *Heart of Darkness* about an army captain who is ordered to hunt down a deranged American officer operating in Cambodia with an army of guerilla tribesmen. Undeniably brilliant, this film is also claustrophobic and terrifying. Winner of Two Academy awards.

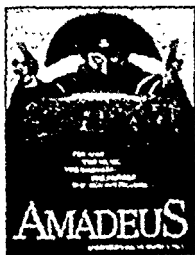
Amadeus (1984) USA 160 mins **Director:** Milos Forman **Cast:** F. Murray Abraham, Tom Hulce, Elizabeth Berridge, Jeffrey Jones, Charles Kay, Simon Callow, Christine Ebersole, Roy Dotrice, Kenny Baker

One of the most entertaining movies to emerge from Hollywood in the 1980's, *Amadeus* has beautiful music, colorful costumes, a terrific script based on the original stageplay, superb acting performances and a stirring and exciting story. Tom Hulce starred as the immortal Wolfgang Mozart and Murray Abraham as his embittered rival, court composer Antonio Salieri. Winner of Eight Academy awards.

Blow Up (1966) Italy 110 mins **Director:** Michaelangelo Antonioni **Cast:** David Hemmings, Vanessa Redgrave, Sarah Miles

Antonioni's break through masterpiece of detection and obsession begins with photographer Thomas taking pictures of a romantic couple cavorting in a public park. The photos develop into frightening grainy images of an apparent murder of an old man. The mystery remains intact long after the film ends.

The Best Years Of Our Lives (1946) USA 172 mins **Director:** William Wyler **Cast:** Fredric March, Myrna Loy, Dana



Andrews, Harold Russel, Virginia Mayo, Teresa Wright, Cathy O'Donnell

A landmark classic drama about three World War II veterans attempting readjustment to peacetime life and discovering that they have fallen behind. The most memorable film about the aftermath of World War II. Winner of Seven Academy awards.

The Bridge on The River Kwai

(1957) Great Britain 161 mins **Director:**

David Lean **Cast:**

Alec Guinness, Jack Hawkins, William Holden, Sessue Hayakawa, James Donald, Geoffrey Home



This exceptional war movie is known for its visual beauty.

Set in a Japanese Prisoner of War camp in Burma, the story centres around the construction of a railway bridge by British and American POWs and its subsequent destruction by a small commando unit. Winner of Seven Academy awards.

Ben-Hur (1959) USA 217 mins **Director:** William Wyler **Cast:** Charlton Heston, Jack Hawkins, Stephen Boyd, Hugh Griffith, Haya Harareet, Matha Scott, Sam Jaffe, Cathy O'Donnell, Finlay Currie.

This spectacular 15 million dollar epic set in the Roman empire's province of Judea, starred Charlton Heston as the Jewish prince Judah Ben Hur, whose childhood friendship with the Roman tribune Messala (Stephen Boyd) turns to enmity when Messala destroys Ben Hur family. Sentenced to the galleys Ben Hur rescues a Roman admiral during a sea battle and is adopted by him. Making his way back to Jerusalem, Ben Hur defeats Messala in a climactic Chariot race and rescues his mother and sister who have become lepers. They are cured by Christ at the moment of the crucifixion. Winner of Eleven academy awards, an all time record.

Breathless (1959) France 89 mins **Director:** Jean Luc Godard **Cast:** Jean Paul Belmondo, Jean Seberg, Daniel Boulanger

A Hoodlum kills a policeman after stealing a car and takes it on the lam with his American girlfriend. This key film of the French 'New Wave' movement of the late fifties is a romanticized view of crime and street life. Veteran director Francois Truffaut wrote the story. The original French title was *A bout de souffle*.

The Ballad of Narayama (1983) Japan 129 mins **Director:** Shohei Imamura **Cast:** Ken Ogata

Based on one of the most unusual Japanese legends, a century ago in a remote mountain village in northern Japan, a local custom dictated that when a person reached 70 years old they were taken to Mount Narayama to die. A true masterpiece of Japanese cinema and a Grand Prize winner at the Cannes Film Festival in 1983.

Citizen Kane (1941) USA 120 mins **Director:** Orson Welles **Cast:** Joseph Cotten, Orson Welles, Agnes Moorehead, Everett Sloane, Ray Collins, Dorothy Comingore, William Alland, Erskine Sanford

The rise to power of an American newspaper tycoon Charles Foster Kane, told in flashback through interviews with people who were close to him in his life time. Closely based on the career of newspaper magnate William Randolph Hearst, this remarkable movie is regarded as the greatest film ever made. Nominated for eight Oscars, but won only one award i.e., for best original screenplay.

Casablanca (1942) USA 102 mins **Director:** Michael Curtiz **Cast:** Humphrey Bogart, Ingrid Bergman, Claude Rains, Paul Henreid, Conrad Veidt, Peter Lorre, Dooley Wilson, Madeleine Le Beau, S.Z. Sakall

Critically-acclaimed, bittersweet, popular, much loved, World War II flavoured, nostalgic story of intrigue and love that teamed Bogart and Bergman as ill fated lovers. Based on improvised play *Everybody Comes*

this movie is indisputably one of the landmarks of American cinema. Winner of Three Academy awards.

A Clock Work Orange (1971) Great Britain 137 mins **Director:** Stanley Kubrick **Cast:** Malcolm Mc Dowell, Patrick Magee, Paul Farrell, Michael Gover, Warren Clarke, Michael Bates, John Clive, Andrienne Corri, Miriam Karlin

Bleakly pessimistic and utterly terrifying this brilliantly directed film, based on a novel by Anthony Burgess, takes audiences into a nihilistic and violent Britain of the future where anarchism reigns, gruesome crime is common place, and the young have lost all moral ties. First film to use the Dolby Laboratory Noise Reduction System.

Cabaret (1972) USA 123 mins **Director:** Bob Fosse **Cast:** Liza Minnelli, Michael York, Joel Grey, Marisa Berenson, Helmut Griem

An outstanding musical chronicling the adventures of an American singer in Berlin, in the days immediately preceeding World War II. Winner of Eight Academy awards.

Cries and Whispers (1973) Sweden 91 mins **Director:** Ingmar Bergman **Cast:** Harriet Andersson, Ingrid Thulin, Liv Ullmann, Erland Josephson, Kari Sylwan

The haunting memories of a dying young woman in the house where she was born and being cared for by her devoted servant and her married sister. Academy award for Best Cinematography (Sven Nykvist).

Chariots of Fire (1981) Great Britain 123 mins **Director:** Hugh Hudson **Cast:** Ian Charleson, Ben Cross, Nigel Havers, John Gielgud, Nicholas Farrell, Nigel Davenport, Lindsay Anderson, Ian Holm, Cherryll Campbell.

Visually beautiful and reminiscent of old fashioned inspirational movies, Chariots of Fire boasts a fine script, excellent performances, a thrilling musical score and a glimpse into recent history. The moving story of two British athletes, both outsiders and both running

for a cause in the 1924 Olympics. Winner of Four Academy awards.

Cinema Paradiso (1988) Italy 127 mins **Director:** Giuseppe Tornatore **Cast:** Philip Noiret, Salvatore Cascio, Jacques Perrin, Marco Leonardi

The story focuses on the love of a young boy Salvatore, and indeed the entire Sicilian village where he lives - for movies. Young Salvatore watches movies from the kind of projectionists room of a theatre with much interest. The past unspools in a sentimental flash back for the middle aged Salvatore when he is summoned home for a funeral - Alfredo the projectionist who is a surrogate father figure. A pleasant sense of nostalgia pervades this Oscar winner for Best Foreign language film. The film also won Palme D'Or at the Cannes festival.

Chicago (2002) USA 113 mins **Director:** Rob Marshall **Cast:** Renee Zellweger, Catherine Zeta Jones, Richard Gere, Queen Latifah, Lucy Liu, John C. Reilly, Christine Baranski, Dominic West, Taye Diggs

This Oscar winning best picture of 2002 is a razzle-dazzle tour de force, one of the best movie musicals of all time. Winner of Six Academy awards.

Double Indemnity (1944) USA 106 mins **Director:** Billy Wilder **Cast:** Fred Mac Murray, Barbara Stanwyck, Edward Robinson, Porter Hall

The movie is one of the finest examples of 'film noir' ever to hit screen. Barbara Stanwyck is a calculating, blonde seductress who lures insurance agent Mac Murray into staging her husband's "accidental death" with their handiwork later investigated by Robinson who traps them.

Doctor Zhivago (1965) USA 190 mins **Director:** David Lean **Cast:** Omar Sharif, Alec Guinness, Rod Steiger, Ralph Richardson, Julie Andrews, Geraldine Chaplin, Rita Tushingham, Klaus Kinski.

Based on Boris Pasternak's novel this sweep-

ing epic about a Russian doctor caught up in the turmoil of World War I and the Russian revolution was a spectacular box office success. The film is sweeping and episodic, with powerful individual segments. Its gorgeous scenery, romantic story, and haunting love theme have made it an audience favourite ever since its release. Winner of Five Academy awards.

Bicycle Thieves (1947) Italy 90 mins

Director: Vittorio De Sica **Cast:** Lamberto Maggiorani, Enzo Staiola, Lianella Carell

Considered by critics an all time classic, this touching, honest, beautifully human film tells the story of an unemployed Italian worker whose bicycle is stolen. He and his small son search Rome for the precious conveyance. Special Academy award for Best foreign film.



Double Suicide (1969) Japan 105 mins **Director:** Masahiro Shinoda **Cast:** Kichiemon Nakamura, Shima Iwashita

Stunning portrait of erotic obsession and passion in turn-of-century Japan. Shinoda explores sexual taboos in his story of a merchant and a geisha whose ill fated love affair is orchestrated entirely by outside forces. This poignant drama is presented in the style of a Bunraku puppet play.

The Discreet Charm of The Bourgeoisie (1972) France/Spain/Italy 105 mins **Director:** Luis Bunuel **Cast:** Fernando Rey, Delphine Seyrig, Stephane Audran, Jean Pierre Cassel, Paul Frankeur, Bulle Ogier, Julianne Bertheau.

Bold social criticism distinguishes this savagely funny surrealist film. Crafted by the master of black humour and irony, Bunuel who is known primarily for his courageous ideas rather than for technical virtuosity, the

movie concerns a group of friends who keep trying to get together for dinner and who are continually frustrated in the attempt. Basically a blistering attack on the stupidities of the world's bourgeoisie. Winner of Oscar for Best foreign film.

Day For Night (1973) France/Italy 117 mins **Director:** Francois Truffaut **Cast:** Jacqueline Bisset, Jean Pierre Leaud, Francois Truffaut, Valentina Cortese, Jean Pierre Aumont

A film within a film with Truffaut (as a fictional film director) best with difficulties of all kinds- the love affairs and emotional problems of his international cast -as he works his way through his latest production. Won the Best foreign film Oscar.

Dersu Uzala (1975) Russia/Japan 137 mins **Director:** Akira Kurosawa **Cast:** Maxim Munzuk, Yuri Salomin, Vladimir Klemen, Svetlana Danielchenka

Kurosawa adventure, set at the turn of the century, and centering on a Siberian trapper and a hunter explorer who form a deep inseparable friendship while surveying the unexplored forests of Eastern Siberia and Taiga land. Academy award for Best Foreign language film.

The Deer Hunter (1978) USA 182 mins **Director:** Michael Cimino **Cast:** Robert DeNero, John Savage, Christopher Walken, John Cazale, Meryl Streep, George Dzundza

A huge sprawling movie about the effects of the Vietnam War on three young Pennsylvanian steel workers when they leave their home town for a tour of duty at the front. Only the strongest of the three survives; the others are crushed physically and mentally by the war and torture at the hands of the Viet Cong. Winner of Five Academy awards.

Dances with Wolves (1990) USA 183 mins **Director:** Kevin Costner **Cast:** Kevin Costner, Mary Mc Donnell, Graham Greene, Michael Spears, Rodney A Grant, Tantoo Cardinal, Charles Rocket, Jimmy Herman

It is a breath takingly well made film about a white man who comes into contact with Indians and adopts their way of life. It is both a stirring drama and a touching romance. Winner of Seven Academy awards.

Eight and A Half (1963) Italy 135 mins **Director:** Federico Fellini **Cast:** Marcello Mastroianni, Claudia Cardinale, Anouk Aimee, Sandra Milo, Rosella Falk

Self analytical, unorthodox, confessional and wonderfully inventive, the autobiographical film, part fact and part fantasy, concerns a successful movie director who in Fellini's own words is 'trying to pull together the pieces of his life and make sense of them'. Perhaps Fellini's strongest cinematic achievement. Winner of Two Academy awards.

The Exorcist (1973) USA 122 mins **Director:** William Friedkin **Cast:** Ellen Burstyn, Linda Blair, Max Von Sydow, Jason Miller, Kitty Winn, Jack Mac Govern, Lee J. Cobb, Barton Heyman, Peter Masterson

Fourteen year old Regan is suddenly prone to fits and bizarre behaviour. After exhausting all the options of science and medicine, Regan's mother Chris turns to young priest Father Karras. Convinced that the girl is possessed by the devil, they call in a mysterious exorcist named Father Merrin. Their foe is no ordinary devil. Both the girl and the priest suffer numerous horrors during the struggle. A classic of modern horror movies. Winner of Two Academy awards.

E.T. The Extra Terrestrial (1982) USA 115 mins **Director:** Steven Spielberg **Cast:** Henry Thomas, Dee Wallace-Stone, Drew Barrymore, Peter Coyote, Sean Frye, Richard Swingler, K.C. Martel, Michael Durrell, Robert Barton, Frank Toth

E.T. is about a lovable toddler sized creature from outer space stranded in a Los Angeles suburb. Three children protect E.T. from a hostile adult world which would mistreat him in the name of science. After numerous adventures and hair's breadth escapes E.T. is

finally allowed to return to his own planet. Won Four Academy awards.

From Here to Eternity (1953) USA 118 mins **Director:** Fred Zinnemann **Cast:** Burt Lancaster, Montgomery Clift, Deborah Kerr, Frank Sinatra, Ernest Borgnine, Jack Warden, Donna Reed, Philip Ober, John Dennis

Based on James Jones's novel, this movie about soldiers and the women in their lives is set in Hawaii at the time prior to Pearl harbour. Shot in documentary style this film is an unflattering look at military life tackling issues like adultery, injustice, corruption and murder. Winner of Eight Academy awards.

The Four Hundred Blows (1959) France 99 mins **Director:** Francois Truffaut **Cast:** Jean Pierre Leaud, Patrick Auffay, Claire Maurier, Albert Remy

Powerful story of a boy and the world that seems to be at odds with him is true and touching. Powerful, tender and at times overwhelmingly sad, this great film touches all the right buttons without being exploitative.

The French Connection (1971) USA 104 mins **Director:** William Friedkin **Cast:** Gene Hackman, Roy Scheider, Fernando Rey, Tony Lo Bianco, Ann Rebbot, Arlene Farber, Marcel Bozzuffi, Frederic de Pasquale

Based-on-fact thriller about two New York Narcotics squad detectives (Hackman and Scheider) who play a long shot hunch hoping to smash a 32 million dollar dope smuggling ring. The high point of this film is an exciting car chase with Hackman driving through on coming traffic in pursuit of an elevated train. Winner of Five Academy awards.

Fanny and Alexander (1982) Sweden/France/West Germany 197 mins **Director:** Ingmar Bergman **Cast:** Pernilla Allwin, Bertil Guve, Erland Josephson

A beautiful fantasy about childhood complete with magic, villainy and melodrama, Fanny and Alexander is a work of art revealing the director's great range, his compassion

adds another jewel to the crown of Iranian Cinema.

Gandhi (1982) Great Britain 188 mins

Director: Richard Attenborough **Cast:** Ben

Kingsley, Candice

Bergen, Edward

Fox, Trevor How-

ard, Martin Sheen,

John Gielgud,

Rohini Hattan-

gady, Roshan

Seth, John Mills, Ian Charle-son, Saeed Jaffrey,

Amrish Puri, Om Puri.



One of the finest screen biographies ever, this film chronicles the life of the Indian leader Mohandas K. Gandhi whose inspired leadership took India from the yoke of British imperialism to independence. Winner of Nine Academy awards.

How Green Was My Valley

(1941) USA 118 mins **Director:** John Ford

Cast: Maureen O'Hara, Walter Pidgeon

Donald Crisp, Anna Lee, Roddy McDowall,

Sara Allgood, Barry Fitzgerald

Based on Richard Llewellyn's novel the movie presents a nostalgic view of the joys and sorrows of a family in a Welsh mining town. Winner of Five Academy awards.

Hiroshima Mon Amour

(1959) France 88 mins **Director:** Alain Resnais **Cast:**

Emmanuelle Riva, Bernard Fresson, Eiji Okada

A mind boggling tale about two people, one a French woman, the other, a male survivor of the blast at Hiroshima. They meet and become lovers. Together they live in their pasts, present and futures in a complex series of fantasies and nightmares.

It Happened One Night

(1934) USA 105 mins **Director:** Frank Capra **Cast:**

Clark Gable, Claudette Colbert, Walter

Connolly, Alan Hale, Roscoe Karns, Jameson

Thomas, Arthur Hoyt

One of the greatest romantic comedies in film history, his film is about a runaway heiress and a wandering journalist who form a lasting

relationship in their journey across country together. Clark Gable and Claudette Colbert are the movies selling points. Winner of Five Academy awards.

Ivan the Terrible

(1945) USSR 188 mins **Director:** Sergei M. Eisenstein **Cast:**

Nicolai Cherkasov, Ludmila Tselikovskaya

Considered among the classics of World Cinema, this epic biography of Russia's first Czar was commissioned by Joseph Stalin to encourage acceptance of his harsh and historically similar policies. World renowned director Eisenstein, instead transformed what was designed as party propaganda into a panoramic saga of how power corrupts those seeking it.

Jaws

(1975) USA 124 mins **Director:** Steven Spielberg **Cast:** Roy Scheider, Robert

Shaw, Richard Dreyfuss, Lorraine Gary, John

Mello, Murray Hamilton, Carl Gottlieb, Peter

Benchley, Jeffrey Kramer

Based on the best selling novel by Peter Benchley, this adventure classic is set at a New England East Coast resort town, Amity Island which is being terrorized by a great white shark. A team of shark hunters team up to hunt down the rogue. One of the highest grossing films of all time. Winner of Three Academy awards.

Jurassic Park

(1993) USA 127 mins **Director:** Steven Spielberg **Cast:** Sam Neill,

Laura Dern, Jeff Goldblum, Richard

Attenborough, Bob Peck, Martin Ferrer,

Samuel L. Jackson, Joseph Mazzello, B.D.

Wong, Ariana Richards

In this adaptation from the novel by Michael Crichton, dinosaurs are genetically recreated to populate the ultimate theme park and a special few are allowed a sneak preview. Adventure and wonder soon turns to terror as the creatures break out of their confines and go on a rampage. Winner of Three Academy awards.

Knife in The Water

(1962) Poland 94 mins **Director:** Roman Polanski **Cast:**

Leon Niemczyk, Jolanta Umecka, Zygmunt

Malanowicz

Absolutely fascinating feature film debut for director Polanski. A couple off for a sailing holiday encounter a young hitchhiker and invite him along on their yacht. The resulting sexual tension is riveting, the outcome impossible to anticipate. Won the Academy award for Best Foreign Film.

Hamlet (1948) Great Britain 150 mins
Director: Laurence Olivier **Cast:** Laurence

Olivier, Basil Sydney, Eileen Herlie, Felix Aylmer, Peter Cushing, Stanley Holloway, Jean Simmons, Norman Wooland

Shakespeare's great tragedy transformed and reduced (from 4 1/2 hrs to 2 1/2 hrs) by Laurence Olivier, who both directed and starred as the Prince of Denmark, who learns from a ghost that his father has been murdered and that his mother has married the murderer. The first wholly British film to be named best of the year. Winner of Four Academy awards.



Kramer Vs Kramer (1979) USA 105 mins **Director:** Robert Benton **Cast:** Dustin Hoffman, Meryl Streep, Justin Henry, Jane Alexander, Howard Duff, Jobeth Williams

Kramer Vs Kramer is a moving account of the aftermath of divorce and a memorable exploration of parent hood. Advertising executive Ted Kramer and his wife Joanna have a seven year old son Billy. One day Joanna leaves her husband and son. Ted and Billy have learned to live with each other, Joanna returns and demands Billy's sole custody. Winner of Five Academy awards.

The Lady Vanishes (1938) Great Britain 97 mins **Director:** Alfred Hitchcock **Cast:** Margaret Lockwood, Michael Redgrave, Dame May Whitty, Basil Rodford; Paul Lukas, Naunton Wayne.

This charming and riveting suspense drama is a masterpiece. Set almost entirely on a train to England, the movie concerns a young woman who discovers that an elderly lady, actually, a British spy, appears to have vanished into this air. She seeks the aid of a fellow passenger in an attempt to locate the old lady. One of the most admired films of Hitchcock.

La Strada (1954) Italy 94 mins **Director:** Federico Fellini **Cast:** Anthony Quinn, Giulietta Masina, Richard Basehart

Fellini's first internationally acclaimed film. Gelsomina, a simple peasant girl is sold to a circus strongman Sampano and as she follows him on his tour through the country side, she falls in love with him. She becomes the victim of his constant abuse and brutality until their meeting with an acrobat dramatically changes the course of their lives. Winner of Academy award for Best Foreign film.

Lawrence of Arabia (1962) Great Britain 221 mins **Director:** David Lean **Cast:** Peter O' Toole, Omar Sharif, Alec Guinness, Arthur Kennedy, Anthony Quinn, Jack Hawkins, Jose Ferrer, Claude Rains.

One of the greatest films of all time, with rich cinematography of the immense desert. A sweeping, breath-taking, cinematic biographical epic that follows the true life exploits of a famed British officer, T.E. Lawrence and his transformation from an enigmatic eccentric to a hero in WWI Arabia. Winner of Seven Academy awards.

The Last Emperor (1987) UK 160 mins **Director:** Bernardo Bertolucci **Cast:** John Lone, Peter O' Toole, Joan Chen, Victor Wong, Dennis Dun, Maggie Han, Wu Jun Mei.

In this awe-inspiring epic Bertolucci dramatizes the life of Pu Yi, China's last emperor. When he was taken from his home at the age of three to become the all powerful Emperor, the youngster was ironically condemned to a life time of imprisonment. Winner of Nine Academy awards.

The Lord of the Rings: The Return of the King (2003) USA 201

mins **Director:** Peter Jackson **Cast:** Sean Astin, Cate Blanchet, Orlando Bloom, Ian McKellen, Billy Boyd, Viggo Mortenson, Liv Tyler, Elijah Wood, John Noble, Andy Serkis, Miranda Otto.....

Based on the epic fantasy by J.R.R. Tolkien, 'The Return of the King' marks the end of the journey that began with 'The Fellowship of the Ring'. It tells the concluding story of the hobbits Frodo and Sam, who must make a perilous journey in order to cast the One Ring, which is the source of all evil. The movie is also memorable for the sheer scale of its battle scenes. Won 11 Academy awards, an all time record.

My Fair Lady

(1964) USA 170

mins **Director:**

George Cukor

Cast: Audrey

Hepburn, Rex Harrison,

Stanley Holloway, Jeremy Brett,

Gladys Cooper, Wilfrid Hyde-

White, Theodore Bikel

The film version of Bernard Shaw's *Pygmalion* written in 1913. The Story concerns an arrogant linguist Professor Henry Higgins betting his friend Colonel Pickering that he can transform cockney flower girl Eliza Doolittle into a lady. After six months Higgins wins the bet, but Eliza feels betrayed. She decides to leave him, but finds it is not easy. Winner of Eight Academy awards.

A Man For All Seasons (1966)

Great Britain 120 mins **Director:** Fred Zinnemann **Cast:** Paul Scofield, Robert Shaw, Leo Mc Kern, Wendy Hiller, Orson Welles, Susannah York, Nigel Davenport, John Hurt

The battle of wills between Sir Thomas More, Chancellor of England and ebullient Henry VIII who in 1528 was seeking a divorce from Catherine of Aragon in order that he might marry Anne Boleyn. More's brave stand

led to his martyrdom. Winner of Six Academy awards.

Midnight Cowboy (1969) USA 113

mins **Director:** John Schlesinger **Cast:** Jon Voight, Dustin Hoffman, Sylvia Miles, Ruth White, John Mc Giver, Brenda Vaccaro, Jennifer Salt, Barnard Hughes

In this tremendous film about the struggle for existence in the urban nightmare of New York's 42nd street area, Jon Voight and Dustin Hoffmann deliver brilliant performances. Voight plays Joe Buck an aspiring male prostitute from Texas who heads to New York for making money by living as a stud. Hoffmann plays Rastorizzo, a slimy con artist suffering from tuberculosis. They depend on each other for their existence. Winner of Three Academy awards.

Mephisto (1981) Hungary 144 mins

Director: Istvan Szabo **Cast:** Klaus Maria Brandauer, Krystyna Janda, Gyorgy Cserhalmi, Peter Andorai, Rolf-Hoppe, Ildiko Bansagi

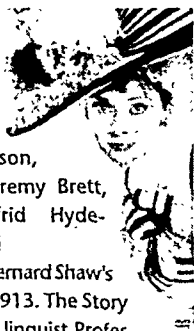
Hungarian film tracing the rise of an ambitious German actor who marries the daughter of a pro-Nazi figure, thrives when the Nazis come to power then subverts classic figures to the Nazi outlook. A vivid portrait of moral corruption in a malignant society. Won the Academy award for the Best Foreign film.

Nazarin (1958) Spain 92 mins **Director:** Luis Bunuel **Cast:** Francisco Rabal, Jesus Fernandex

A memorable film by Bunuel that presents a clever variation of the Don Quixote theme, applied to religion and hypocrisy. A priest is cast out of his church for giving shelter to a prostitute. This surrealistic comedy won the Grand Prize at the Cannes Film Festival.

Nostalgia (1983) Italy 120 mins **Director:** Andrei Tarkovsky **Cast:** Oleg Yankovsky, Erland Josephson

Tarkovsky's first film made outside his native Russia is this highly personal work about a Russian poet on a research project in Italy who attempts to turn his longing for his home and family into a positive experience.



On The Water Front (1954) USA

108 mins **Director:** Elia Kazan **Cast:** Marlon Brando, Karl Malden, Rod Steiger, Eva Marie Saint, Lee J. Cobb, Pat Henning, Leif Erickson, John F. Hamilton

This celebrated muckraking film exposes degrading dockside labour practices, with director Kazan throwing a harsh spotlight on the crooked union bosses who used strong arm tactics and forced Stevedores to beg for their jobs.



Elia Kazan

Marlon Brando is superb as Terry Malloy who tries to overthrow a corrupt union and succeeds. Winner of Eight Academy awards.

One Flew Over The Cuckoo's Nest (1975) USA 134 mins

Director: Milos Forman **Cast:** Jack Nicholson, Louise Fletcher, Sydney Lassik, Brad Dowrif, William Redfield, Dean R. Brooks, Peter Brocco, Danny D'Vito

Patrick Mc Murphy is a drifter who pretends to be a mentally ill in order to get out of work duty at prison. He is sent to a mental ward ruled by the tyrannical Nurse Ratched who regiments the lives of the patients without helping them. Mc Murphy who sees the absurdity of the situation becomes the patients symbol of non conformity and rebellion. Winner of five major Academy awards - best picture, director, actor, actress and script.

Psycho (1960) USA 109 mins

Director: Alfred Hitchcock **Cast:** Anthony Perkins, Janet Leigh, Vera Miles, John Gavin, Martin Balsam, John McIntire, Simon Oakland, Patricia Hitchcock

Psycho is regarded as the 'mother' of all modern horror suspense films-it inspired plenty of future screen 'slashers'. The murder of Marion Crane (Janet Leigh) in the shower of Room one in Bates Motel is one of the most shocking and famous scenes in the history of

films. Anthony Perkins's haunting portrayal of Norman Bates is one of cinema's most chilling performances.

Patton (1970) USA 170 mins

Director: Franklin J. Schaffner **Cast:** George C. Scott, Karl Malden, Stephen Young, Michael Bates, Michael Strong, Frank Latimore, James Edwards, Cary Loftin

The wartime career of one of the most controversial American commanders of World War II, General George S. Patton who forfeited command of the 7th army in Sicily after he had struck a soldier suffering from battle fatigue. George Scott is spell binding in the title role. Winner of Seven Academy awards.

Picnic At The Hanging Rock (1975) Australia 110 mins

Director: Peter Weir **Cast:** Rachel Roberts, Helen Morse, Dominic Guard, Jackie Weaver.

Surreal, hypnotic suspense story revolves around the mysterious disappearance of a group of girl students from the Apple yard College at the turn of the century in Australia. They were on a picnic at the nearby Hanging Rock, a primordial formation of mysteriously forbidding rocks.

Rashomon (1950) Japan 88 mins

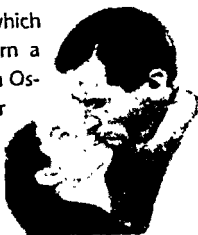
Director: Akira Kurosawa **Cast:** Toshiro Mifune, Machiko Kyo, Masayuki Mori, Takashi Shimura

This was the first Japanese film to receive widespread international recognition after World War II. A bandit is on trial for raping a woman in a forest in front of her husband and then murdering the husband. The events are related by the three principals and a wood cutter who witnessed the crime. All the versions contradict one another and all are equally convincing. Won the Academy award for Best Foreign language film.

Roman Holiday (1953) USA 118 mins

Director: William Wyler **Cast:** Gregory Peck, Audrey Hepburn, Eddie Albert, Harcourt Williams, Hartley Power, Margaret Rawlings

Romantic comedy which made Audrey Hepburn a star and earned her an Oscar in her first major role that of a young princess Ann who escapes from the pomp and ceremony of her surroundings for 24-hours and enjoys a brief romance with American journalist Joe Bradley (Gregory Peck). Won Three Academy awards.



Rain Man (1988) USA 133 mins **Director:** Barry Levinson **Cast:** Dustin Hoffman, Tom Cruise, Valeria Golino, Ralph Serymour, Jack Murdock, Gerard R. Molen

Hoffman gives the performance of his career as the autistic older brother (Raymond Babbit) of Tom Cruise who plays a thoughtless, self-centered hustler (Charlie Babbit) with room in his life only for money. Greed propels him to take a cross country road trip with Raymond, who inherited the bulk of Dad's vast estate. Won Four major Academy awards for best picture, director, actor and original screenplay.

Red Sorghum (1988) China 91 mins **Director:** Zhang Yimou **Cast:** Gong Li, Jian Weng, Liu Ji

A superb pastoral epic from the People's Republic of China and winner of Golden Bear at the 1988 Berlin Film Festival. The story relates a passionate folk tale about village wine makers who fight against interloping Japanese invaders. Lyrical and affecting drama.

Snow White and The Seven Dwarfs (1938) USA 83 mins **Director:** David Hand

Based on the well known fairy tale by Brothers Grimm, this milestone in Animation history was Walt Disney's first full length feature. It is an extraordinary well crafted film with each cartoon character vividly drawn and given a distinct personality. The seven dwarfs - Bashful, Doc, Dopey, Grumpy, Happy, Sleepy and Sneezy - are endearing and won-

derful. The wicked queen is the epitome of cold, dark beauty. And snow white is a charmer. This delightful, colourfilm is a treat for the whole family. Even the songs of the film have become very popular and famous.

The film received a Special Academy award consisting of one regular sized statuette and seven 'dwarf' statuettes.

Singin' In The Rain (1952) USA 103 mins **Director:** Gene Kelly, Stanley Donen **Cast:** Gene Kelly, Debbie Reynolds, Jean Hagan, Donald O'Connor

One of the all time best Hollywood musicals that spoofs and satirizes the traditional chaos surrounding the end of the silent era and the dawn of the 'talkies'.

The Seventh Seal (1956) Sweden 96 mins **Director:** Ingmar Bergman **Cast:** Max Von Sydow, Bengt Ekerot, Gunnar Bjornstrand, Bibi Anderson, Gunnel Lindblom

A Swedish knight who has been on the Crusades and has lost his faith returns home to a land beset by plague and panic. He meets Death who offers him a short reprieve by playing a game of chess. This film is about disillusionment, good vs evil, the existence or non-existence of God and other questions. What makes it a masterpiece, however are the strong performances and stunning photography. Many of the images, the chess match, the final Dance of Death are among the most famous in the history of cinema.

The Sound of Music (1965) USA 174 mins **Director:** Robert Wise **Cast:** Julie Andrews, Christopher Plummer, Peggy Wood, Anna Lee, Eleanor Parker, Debbie Turner, Heather Menzies, Nicholas Hammond, Duan Chase, Angela Cartwright, Kym Karath

Maria is a free spirited novice at a convent who is hired by Baron Capt. George Von Trapp to be governess to his seven children. She becomes friends with the children and opens them to the joy of music, winning the heart of their father whom she later marries. When the Nazi invasion of Austria threatens

their happiness they plot a dramatic escape. Winner of Five Academy awards.

Starwars (1977) USA 121 mins **Director:** George Lucas **Cast:** Harrison Ford, Peter Cushing, Alec Guinness, Kenny Baker, Carrie Fisher, Mark Hamill, Anthony Daniels, Peter Mayhew

One of the most inventive and entertaining films ever made Starwars knits together fragments of mythology and science into a tale everyone can relate to. A big budget blockbuster with astounding special effects. Won Seven Academy awards.

The Seven Samurai (1954) Japan 197 mins **Director:** Akira Kurosawa **Cast:** Toshiro Mifune, Taka-shi Shimura, Yoshio Inaba, Ko Kimura, Daisuke Kato, Minoru Chiaki, Kamatari Fujiwara.



This Japanese movie about seven swordsmen coming to the aid of a besieged peasantry - is one of the rare screen wonders that seems to end too soon. Its story is appealing and timeless. Winner of Academy awards for Best foreign language film.

The Silence of the Lambs (1991) A 118 mins **Director:** Jonathan Demme **Cast:** Jodie Foster, Anthony Hopkins, Scott Glenn, Ted Levine, Frankie Faison, Kasi Lemmons, Anthony Heald.

In this shock filled movie, an FBI cadet is assigned by her superior to interview an imprisoned, cannibalistic psychopath in the hopes of getting his help in capturing a crazed serial killer. Superb performances by Foster and Perkins. Winner of Five major Academy awards.

Schindler's List (1993) USA 185 mins **Director:** Steven Spielberg **Cast:** Liam Neeson, Ben Kingsley, Ralph Fiennes, Caroline Goodall, Jonathan Sagalle, Embeth Davidtz, Andrzej Seweryn

The story of one man's (Oskar Schindler) struggle to save the lives of 1000 Polish Jews during the Third Reich's implementation of Hitler's 'final solution'. Spielbergs' masterpiece. Won Seven Academy awards.

Tokyo Story (1953) Japan 139 mins **Director:** Yasujiro Ozu **Cast:** Chishu Ryu, Chiyeko Higashiyama, Kyoko Kagawa, Shiro Ozaka, Kuniko Miyake, Haruko Sugimura

Ozus overpowering masterpiece is a deeply felt human drama about an elderly couple who travel to Tokyo, where they are unenthusiastically received by their grown up children. Outstanding black and white cinematography brilliantly captures the landscapes of Tokyo.

Throne of Blood (1957) Japan 110 mins **Director:** Akira Kurosawa **Cast:** Toshiro Mifune, Isuzu Yamada, Minoru Chiaki, Takashi Shimura, Chieko Naniwa, Takamaru Sasaki, Akira Kubo

Kurosawa's retelling of 'Macbeth' may be the best film adaptation of Shakespeare ever made. He uses the medium to present Shakespeare's themes in visual images.

2001: A Space Odyssey (1968) Great Britain 141 mins **Director:** Stanley Kubrick **Cast:** Kier Dullea, Gray Lockwood, William Sylvester, Daniel Richter, Robert Beatty, Sean Sullivan, Margaret Tyzack, Leonard Rossiter

Spectacular movie production of the future revolving round the discovery of a centuries old monolith on the moon and the subsequent journey by a group of astronauts to Jupiter in search of extra terrestrial life. Breath taking special effects by Kubrick and his team earned the film an Academy award. The film contains some of the most powerful images ever to grace a science fiction film.

The Tin Drum (1979) Germany/France 142 mins **Director:** Volker Schlöndorff **Cast:** David Bennent, Angela Winkler, Mario Adorf, Daniel Olbrychski, Charles Aznavour

Gunther Grass's bizarre tale of three

Oskar, who stops growing as the Nazis rise to power in Germany. Oskar expresses his outrage by banging on a tin drum. This unique film has a disturbing dream like quality, while its visuals are alternately startling and haunting. Won Academy award for Best Foreign Film. Winner of Grand Prix at Cannes Festival.

Three Colours:- Blue, White, Red (1993, 1994) France/Poland/Switzerland and **Director:** Krzysztof Kieslowski **Cast:** Juliette Binoche, Benoit Regent, Emmanuelle Béart, Charlotte Very, Florence Pernel, (Blue) Zbigniew Zamachowski Julie Delphy (white), Irene Jacob, Jean-Louis Trintignant (Red)

Three feature films work separately and as a trilogy, symbolising the three colours which stand for three concepts - Liberty, Equality and Fraternity.

Blue- is a mournful anthem to the ideal of a new, post cold war Europe. Julie loses her husband Patrice, a renowned composer and daughter Anna in a car accident. She tries to forget, to cut herself off from all previous ties and begin a new life. The subtle use of the theme colour is echoed, highlighted and countered by a soaringly beautiful score.

White - Karol, a Polish hairdresser in Paris has become impotent and his wife throws him out on to the streets. His revenge is to turn into a ruthless entrepreneur in the chaotic free market of Poland.

Red- Imposes a formal unity on the trilogy with the judicial intervention of a Retired Judge. Valentine, a young model and the old Judge meet as adversaries initially but a curious bond develops between them over a period of incident rich time.

Titanic (1997) USA 194 mins **Director:** James Cameron **Cast:** Leonardo Di Caprio, Kate Winslet, Kathy Bates, Billy Zane, Gloria Stuart, Bernard Hill, Bill Paxton, Jonathan Hyde

James Cameron made Titanic on a monumental scale, meticulously recreating an ill-fated journey of the luxury liner with lavish

sets and special effects and a haunting emotional core. Leonardo Di Caprio and Kate Winslet are perfectly cast as the vulnerable young lovers from opposite ends of the social strata who find true passion before the ship collides with an iceberg. Winner of Eleven Academy awards an all time record.

Umberto D (1955) Italy 89 mins **Director:** Vittorio De Sica **Cast:** Carlo Battista, Maria Pia Cassilio

Umberto an elderly retired civil servant living on an inadequate pension in postwar Rome, is threatened with eviction unless he pays his back rent. He also deeply care about his dog Flike and a pregnant and unmarried young maid Maria who also faces eviction. This is a realistic socially moving drama, one of director De Sica's best.

Ugetsu (1953) Japan 94 mins **Director:** Kenji Mizoguchi **Cast:** Machiko Kyo-Masayuki Mori, Eitaro Ozawa, Kinuyo Tanaka-Mitsuko Mito

Set in 16th century Japan, this film follows the lives of two Japanese peasants as their greed and ambition brings disaster upon their families. There is a fine blending of action and comedy in this ghostly tale.

Vertigo (1958) USA 128 mins **Director:** Alfred Hitchcock **Cast:** James Stewart, Kim Novak, Barbara Bel Geddes, Henry Jones, Tom Helmore, Ellen Carby, Lee. Patrick, Raymond Bailey

Vertigo, a haunting tale of deception, madness and death, is one of Hitchcock's most closely studied films for its psychological complexity. With a plot full of twists and surprises, excellent direction and stylish cinematography Vertigo is thrilling, thought provoking and timeless.

The Wizard of Oz (1939) USA 101 mins **Director:** Victor Fleming **Cast:** Judy Garland, Frank Morgan, Ray Bolger, Bert Lahr, Margaret Hamilton, Billie Burke, Jack Haley

The film belongs to the exclusive category of films capable of equally enchanting children and adults. The tale of the little girl

Dorothy who is whirled away from home by a tornado and manages to get back with the aid of three friends. Won Two Academy awards for Best original score and Best Song.

Wages of Fear (1953) France/Italy 128 mins **Director:** Henri-Georges Clouzot **Cast:** Yves Montand, Charles Vanel, Peter Van Eyck, Folco Lolli, Vera Clouzot

This masterpiece of suspense concerns four Europeans stranded and broke in a South American country, take a job of driving two truckloads of nitro-glycerine over hundreds of miles of mountain roads. The roads are horrible and the trucks may blow up at any moment. It is also an angry denunciation of the exploitation of workers and an exploration of the relationships between four men.

Wild Strawberries (1957) Sweden 90 mins **Director:** Ingmar Bergman **Cast:** Victor Sjöström, Ingrid Thulin, Bibi Andersson, Gunnar Björnstrand, Max Von Sydow

An elderly Swedish Professor Isak Borg drives back to his home town to receive an

honorary degree. His past life is revealed through dreams and a series of flash backs. It is one of the most-influential films in history and is still studied by film makers everywhere.

West side Story (1961) USA 151 mins **Director:** Robert Wise, Jerome Robbins **Cast:** Natalie Wood, Richard Beymer, Rita Moreno, Ned Glass, George Chakris, Russ Tamblyn, Simon Oakland

A musical updating of Shakespeare's *Romeo and Juliet* to the slums of New York with Tony and Maria trying to find peace and love despite the gang wars between the immigrant Puerto Ricans (The Sharks) and the native New Yorkers (The Jets) going on around them. Winner of Ten Academy awards.

Z (1969) France/Algeria 127 mins **Director:** Costa-Gavras **Cast:** Yves Montand, Jean-Louis Trintignant, Jacques Perrin, Irene Papas, Charles Denner, Francois Perier.

Chilling political thriller based on the true life incident of the 1963 assassination of a left wing Greek deputy. Winner of Academy award for Best foreign language film.

Who did it First? — 250 FIRSTS

First Nobel Prize winner for Literature - Sully Prudhomme, France (1901)

First Nobel Prize winner for Peace - Jean Henri Dunant, Switzerland & Frederic Passy, France (1901)

First Nobel Prize winner for Physics - Wilhelm Conrad Roentgen, Germany (1901)

First Nobel Prize winner for Physiology & Medicine - Emil Adolf Von Behring, Germany (1901)

First Nobel Prize winner for Chemistry - Jacobus Henricus Van't Hoff, Netherlands (1901)

First Nobel Prize winner for Economics -

Ragnar Frisch, Norway & Jan Tinbergen, Netherlands (1969)

First person to win two Nobel Prizes - Marie Skłodowska Curie (first in Physics, 1903 and the second in Chemistry, 1911)

First Pulitzer Winner for Biography - Laura E. Richards, H. Elliott, and Florence Hall for "Julia Ward Howe" (1917)

First Pulitzer Winner for History - Jean Jules Jusserand for "With Americans of past and present days" (1917)

First Pulitzer Winner for Reporting - Herbert B. Swope (1917)

Jack to receive the Nobel Peace Prize -
Nobun Bunche (1950)

Indian to win Nobel Prize in Literature -
Rabindranath Tagore. He was also the first
Indian to get the prize (1913)

Indian to win Booker Prize - Arundhati
Rai. For 'The God of Small Things' (1997)

Indians to win
Padma Ratna - Dr. S.
Radhakrishnan, C.
V. Raman
(1954)

Indian to win
Padma Shree - Devika Rani
(2007)

Bank in the world - Egibi bank founded
in Babylon during the period of Nebu-
dnezzar (605 - 562 BC)

Jazz movie in the world - "The Jazz
Singer" (1927)

Oscar winner for the Best Actor - Emil
Jannings (1928)

Black actor to win an Oscar in a major
category - Sidney Poitier. It was for his role
in the film, "Lilies of the Field" (1964)

Indian Oscar winner - Bhanu Athaiya,
for Best Costume Design for the film
'Sati' (1982)

Indian Oscar nomination for Best For-
eign Language Film - Mother India (1957)

Criminal to be executed by electrocu-
tion - William Kemmler in Auburn Prison
New York (1890)

Skycraper in the world - Home Insur-
ance Building, Chicago, Illinois. William
Le Baron Jenney was the architect of this 10
storey, 138 ft., building (1885)

Magician to perform the magic of saw-
ing a woman in half - Count de Grisey
(1999)

Aerial photographers in the world -
Maurice Archer King and William Black.
They made two photos of Boston (1860)



Dr. S. Radhakrishnan

First dry dock in the world - Portsmouth
Hampshire (1495)

First direct transfusion of blood - performed
by Richard Lower, English physician and
physiologist (1666)

First person to be convicted by the process
of DNA fingerprinting - Colin Pitchfork
(1988)

First person to be exonerated by the process
of DNA fingerprinting - Richard Buckland
(1988)

First person to be executed by the guillotine
- Nicolas J. Pelletier (1792)

First President of ADB - Takeshi Watanabe
(1966)

First Beauty Contest in the world - Started by
Cypselus, the King of the Greek City of
Korinth. It continued for centuries (700 BC)

First cloned mammal - Dolly, the lamb (1996)

First sex-change operation in the world -
George (Christine) Jorgenson (1952)

First human heart transplant was performed
by - Dr. Christian Barnard (1967)

First human heart transplant recipient - Louis
Washkansky. He lived only 18 days with
the new heart (1967)

First recipient of a permanent artificial heart
- Barney Clark (1982)

First artificial pacemaker implant into a hu-
man - By a Swedish team using a pace-
maker designed by Rune Elmqvist. The
patient was Arne Larsson (1958)

First test tube baby - Louise Brown. In
Lancashire, England. Patrick Christo-
pher Steptoe, English obstetrician, to-
gether with Robert Edwards, biologist, suc-
ceeded in this first human in vitro fertili-
zation (1978)

First Indian Test tube baby - Harsha, at KEM
hospital Mumbai. Indira Hinduja was the
doctor (1986)

Parkinson's disease was first described by -
James Parkinson, British neurologist (1817)

Hodgkin's disease was first recognized by -
Thomas Hodgkin, English physician. He

- was also the first person to stress the importance of post mortem (1832)
- DNA finger printing was first developed by - Prof. Alec Jeffreys, UK (1984)
- First performance of "blue baby" operation - Drs. Helen Taussig and Alfred Blalock performed the first neonatal surgical treatment for malformations of the heart, "blue baby operation", at Johns Hopkins Hospital, USA (1944)
- First official recognition of AIDS in the world - Centers for Disease Control issued a press release describing five cases in Los Angeles, USA (1981)
- First to clone an AIDS virus and work out its anatomy - Chinese American Flossie Wong Staal (1985)
- First Chief Justice of the US Supreme Court - John Jay (1789)
- The first magazine printed in the world - 'Journal of the Learned' (Journal des Scavans) published in Paris (1665)
- Inventor of the first sign language alphabet for the use of the deaf - George Dalgarno, Scottish school teacher (1680)
- The first alphabetical encyclopedia - Technical Lexicon. Compiled by John Harris (1704)
- Copyright was first recognized in the world - An author's copyright was first recognized in Britain by an Act of Parliament (1709)
- World's first crossword - Devised by Arthur Wynne, England (1913)
- First American novel - The Power of Sympathy by William Hill Brown (1789)
- World's first television service - The British Broadcasting Corporation (BBC) started from Alexandra Palace with three hours of programming a day (1936)
- First Indian Sponsored TV serial - Hum Log (1984)
- World's first teletext system - Ceefax and Oracle. It were developed by the BBC and Independent Television in the UK (1973)
- First Post Office system in United States - William Godard established the first Post Office system in United States at Baltimore (1774)
- First incident of a murder shown live on television - Jack Ruby killing Lee Harvey Oswald (1963)
- First dictionary in the world - 'Explaining Words, Analysing Characters' (Chinese) Compiled by Hsew Shen (C 100 AD)
- First Thesaurus in the world - Chinese 'Literary Approximater' (C 800 BC)
- First Encyclopaedia in the world - 'Antiquities of Things Human and Divine' written by Roman scholar Marcus Terentius Varro (47 BC)
- First Press Agency in the world - Charles Havas started the first press agency supplying news to French newspapers (1835 AD)
- First daily Newspaper in the world - The Daily News (Acta Diurna) This is the earliest known handwritten Daily Newspaper in the world published in Rome (1st BC)
- First printed book in the world - Diamond Sutra. This Chinese book on Buddhist scriptures, is the oldest known dated printed book in the world (868 AD)
- First novel in the world - Cyropaedia, historical Greek novel written in Corinth about the life of Cyrus (360 BC)
- First US President - George Washington. He is the only unanimously elected US president (1789)
- First US President to be inaugurated in Washington, D.C - Thomas Jefferson (1801)
- First US president to die in office - William Henry Harrison. He also had the shortest term in office, 32 days (1841)
- First US President to be assassinated - Abraham Lincoln. He is also the first president from the Republican Party (1865)
- First and only US president to resign from office - Richard Nixon (1974)
- First and only US President to win election to nonconsecutive terms - Grover Cleveland. He is also the first US President married inside the White House in 1886 (1892)

First US President to reside in the White House - John Adams. He was the first Vice President and the second President (1797)

First US president to speak on television - Franklin D. Roosevelt. He was the first US President to ride in a car, first American to get the Nobel Peace Prize, first and only US President sworn in for a fourth term (1939)

First US President to have a telephone in the White House - Rutherford B. Hayes

First and only bachelor to be elected US President - James Buchanan

First US President to hold regular news briefings - Woodrow Wilson

First US President to make a radio broadcast - Calvin Coolidge

First US President to be a Rhodes Scholar - Bill Clinton

First US Vice President to assume Presidency upon the death of the President - John Tyler (1841)

First unelected US Vice President to become President - Gerald R. Ford (1974)

First Inaugural ceremony broadcast live on the Internet - William J. Clinton (1997)

First American Indian to become a US Senator - Charles Curtis (1907)

First openly gay U.S. Congressperson - Barney Frank (1981)

First Jewish to become US Secretary of State - Henry Kissinger (1973)

First Black to become US secretary of state - Colin Powell (2000)

First Speaker of the US House of Representatives - Frederick Muhlenberg (1789)

First Jewish ambassador from US - Oscar Straus, ambassador to Turkey (1887)

First black Secretary General of the United Nations - Kofi Annan (1987)

First senator in the US to be impeached by the House of Representatives - William Blount (1797)

First Secretary General of United Nations - Trygve Lie, Norway (1946)

First Prime Minister of UK - Robert Walpole (1721)

First English Monarch to live in Buckingham Palace - Queen Victoria (1837)

First British Monarch to have a televised coronation - Elizabeth II (1953)

First Prime Minister of Australia - Edmund Barton (1900)

First elected president of Indonesia - Abdurrahman Wahid (1999)

First Prime Minister of Canada - Sir John Alexander McDonald (1867)

First Tsar of Russia - Ivan IV, the Terrible (1547)

First reigning queen of England - Queen Mary I (Bloody Mary) (1553)

First Indian Prime Minister to be voted out of office - Indira Gandhi, when the Indian National Congress lost to the Janata Party (1977)

First Non Congress government in India - Janata Party Government with Morarji Desai as the Prime Minister (1977-1979)

First Emperor of Rome - Augustus (27 BC)

First President of Chile - Manuel Blanco Encalada (1826)

First Prime Minister of Sweden - Louis De Geer (1876)

First Prime Minister of Canada - Sir John Macdonald (1867)

First President of Slovenia - Milan Kucan (1990)

First Black President of South Africa - Nelson Mandela (1994)

First Prime Minister of Australia - Edmund Barton (1901)

First country to implement 'right to vote' for woman (female suffrage) - New Zealand (1893)

First American to be canonized as saint - Mother Frances Xavier Cabrini (1946)

First Pope to visit Cuba - John Paul the Second (1998)

First Tour de France (road bicycle race) winner - Maurice Garin (1903)

First recognized boxing (fisticuffs) champion - Tim Hyer (1841)

World's first chess champion - Wilhelm Steinitz (1886)

First person ever to codify a set of rules for boxing - Jack Broughton (1743)
 First golf club in the world - Honourable Company of Edinburgh Golfers (1744)
 First footballer of the Year - Sir Stanley Matthews, English footballer. He was also the first European Footballer of the Year in 1956, and the first footballer to be knighted in 1965. (1948)
 First man to run a mile under 4 minutes - British Athlete Sir Roger Bannister. He established this record at Iffley Road Track, Oxford in 3 minutes 59.4 seconds (1954)
 First Indian Olympic team medal - Gold for Hockey. At Amsterdam beating the Netherlands (1928)
 First Indian Olympic individual medal winner - K. D. Jadhav, Bronze in wrestling at Helsinki (1952)
 First athlete disqualified at the olympics for drug use - Hans-Gunnar Liljenwall at the Mexico summer Olympics (1968)
 First Asian Olympic Gold Medalist - Kristie Yamaguchi
 The first cricket club - Cricket club founded in Hambledon, a village in southern England (1750)
 First Indian Cricket tournament - The Bombay Triangular which later became the Bombay Quadrangular (1912)
 First Indian Cricket test match - Against England at Lord's (1932)
 First Indian Cricket captain - CK Nayudu, for the tour of England (1932)
 First Indian cricketer to score a century - Lala Amarnath, against England in South Bombay. He was also independent India's first test captain leading a tour of Australia in 1947-48. (1933)
 First Indian cricketer to score a triple century - Virender Sehwag, against Pakistan at Multan (2004)
 First Indian hat-trick in Test cricket - Harbhajan Singh, against Australia (2001)
 First Indian Batsman to complete 10,000

runs-Sunil Gavaskar. He was first in the world to achieve this

First black tennis player to win a Wimbledon singles title - Althea Gibson (1957)



Sunil Gavaskar

First Indian Tennis Grand

Slam title - Mahesh Bhupathi, partnering with Japanese Rika Hiraki, in the Mixed Doubles category of the French Open (1997)

First Indian woman to enter the third round of a Grand Slam tournament - Sania Mirza (2003)

First man to set land speed record in car racing - Alexander Winton, at Daytona Beach at a speed of 68.18 mph (1903)

First man to reach the South Pole - Roald Amundsen, Norwegian explorer and team (1911)

First pilots to fly around the world non-stop and non-refueled - Jeana Yeager and Dick Rutan, they achieved this in a specially designed aircraft named the Voyager (1986)

First man to fly solo non stop across the Atlantic - Charles Lindbergh (1927)

First person to fly faster than the speed of sound - Charles Elwood Chuck Yeager, he flew a Bell X-1 rocket at 670 mph in level flight (1947)

First person to swim across the English Channel - Matthew Webb (1875)

First person to swim the English Channel non-stop in both directions - Antonio Abertondo (1961)

First American to swim across the English Channel - Henry Sullivan (1923)

First person to swim from the Bahamas to Florida - Diana Nyad (1979)

First person to cross Antarctic Circle - James Cook (1773)

First surface journey around the world's polar circumference - Sir Ranulph Twisleton - Wykeham Fiennes, British explorer. He was

the first man to visit both the North and South Poles by land (1979 -1982)

rst known person to survive the jump off of Niagara Falls - Sam Patch, who is also known as 'the Yankee Leaper' (1829)

rst person to cross Niagara Falls on a tight-rope - Charles Blondin (Jean François "Blondin" Gravelet) (1859)

rst flying trapeze circus in the world - Jules Leotard, performed at the Cirque Napoleon in Paris without safety nets (1859)

rst man to set 400 mi/h, 500 mi/h, 600 mi/h land speed records in car in the world - Craig Breedlove (between 1963 - 1965)

rst humans to fly - Marquis d'Arlandes & Pilatre de Rozier. In this first manned balloon flight in the world they were airborne in a hot-air balloon for 20 minutes in Paris at the height of 3000 ft and travelled 7 miles (1783)

rst parachute jump - André-Jacques Garnerin, the inventor of parachute, dropped from 3000 ft. over Monceau Park in Paris in a 23-ft. diameter parachute (1797)

rst successful hot air balloon flight over the North Pole - Sidney Conn and his wife, Eleanor, in hot-air balloon Joy of Sound (1980)

rst nonstop transcontinental balloon flight - Maxie Anderson and his son Kris completed four day flight from Fort Baker, California, to successful landing outside Matane, Quebec, in their helium filled balloon, Kitty Hawk (1980)

rst nonstop round the world balloon flight - Bertrand Piccard, Switzerland and Brian Jones, UK flew 45,755 km from Chateaux d'Oex, Switzerland, to Dakhla, Egypt, in about 20 days (1999)

rst balloonist to fly solo nonstop around the world - Steve Fossett, U.S. He launched from Northam, West Australia, on June 19 and returned to Queensland, Australia, after 14 days, 19 hrs. He broke three bal-

loon records along the way, fastest around the world, longest distance solo, and longest time flown solo (First hydrogen filled balloon flight - J. A. C. Charles, Paris physicist. The 1 diameter balloon got up to about 3 and travelled about 16 miles within minutes (1783)

First successful transatlantic balloon flight - Larry Newman and Maxie Anderson completed the crossing in their helium balloon, Double Eagle II (1978)

First transatlantic hot-air balloon flight - Charles Branson and Per Lindstrand flew 2,789.6 miles in 33 hours from Sugar Mt., Maine, to Ireland in the hot-air balloon Virgin Atlantic Flyer (1987)

First solo transatlantic balloon flight - Joseph Kittinger. He landed near Savona, Italy in his helium-filled balloon, after a flight of 3,535 miles from Caribou, Maine (1960)

First solo transpacific balloon flight - Joseph A. P. Fossett. He made a flight of 5,430 miles from Seoul, South Korea, to Lethbridge, Canada, in a helium-filled balloon (1991)

First transpacific hot-air balloon flight - Charles Branson and Per Lindstrand flew 6,700 mi from Miyakonojo, Japan, to Yellowknife, Canada in 47 hrs (1981)

First man to cross the Pacific Ocean in a balloon - Ben Abruzzo and team in Double Eagle V (1981)

First man to row across the Pacific Ocean - Jim Shekdar, English Engineer (2000)

First person to row the Pacific solo - Robin Knox-Johnston (Britain). He set off from San Francisco and arrived Great Barrier Reef, Australia, 294 days later on June 14. (1983)

First people to reach the deepest point on the surface of the earth, the Challenger Deep in the Mariana Trench, Pacific Ocean - Jacques Piccard and Lieutenant Don P. Slayton on the submarine 'Trieste' (1960)

First people to sight the North Pole - Roald Amundsen and his sponsor Lin

Ellsworth from the airship 'Norge' piloted by Umberto Nobile (1926)
 First people to reach the North Pole - Lt. Col. Joseph O. Fletcher and Lt. William P. Benedict landed their plane (1952)
 First recorded deaths on Mount Everest - 7 Sherpa porters die in an avalanche. They were part of a British expedition (1922)
 First successful conquest of Mount Everest - Tenzing Norgay & Sir Edmund Hillary (New Zealand) via the South-East Ridge Route (1953)
 First conquest of Everest via the North Ridge - Chinese team (1960)
 First American to conquer Everest - James Whittaker (1963)
 First person to conquer Everest twice - Nawang Gombu Sherpa. Both of his ascents were via the South east ridge (1965)
 First ascent without bottled oxygen - Peter Habeler (Austria) and Reinhold Messner, (Italy) via the South - East Ridge (1978)
 First couple to conquer together - Andrej & Marija Stremfelj, Slovenia. Marija was also the first Slovenian woman to climb Everest (1990)
 First Son of a mountaineer to climb Everest - Peter Hillary, New Zealand (1990)
 First father and son to climb together - Jean Noel Roche and his son Roche Bertrand aka Zebulon (1990)
 First conquest of Everest by two brothers together - Alberto and Felix Inurategui (1992)
 First Pakistani to conquer the Everest - Nazir Sabir (2000)
 First blind person to conquer Everest - Erik Weihenmayer, USA (2001)
 First person with only one arm to climb the Everest - American Gary Guller (2003)
 First Arab to climb the Everest - Zed Al Refai, Kuwait (2003)
 First conquest of Everest via West Ridge Willi Unsoeld and Tom Hornbein. Also the first traverse of the South East Ridge (1963)
 First conquest from the South West face -

Dougal Haston and Doug Scott (1975)
 First use of rubber gloves in surgery - Dr. William S. Halstead was the first person to use rubber gloves for surgery at Johns Hopkins Hospital (1894)
 First international scientific collaboration - Observation of the transit of Venus (1761 and 1769)
 First telegraph line in United States - Samuel Morse created first telegraph line in United States, extending from Baltimore to Washington (1844)
 The first and only supersonic airliner - Concorde, twice the speed of sound, about 2,170 kph (1969)
 First rowing race in the world - Doggett's Coat and Badge begun for Thames watermen (1715)
 First practical threshing machine for separating cereal grains from the husks - designed and built by Andrew Meikle, Scottish millwright (1785)
 The first carbon paper - Invented by Ralph Wedgwood, England (1806)
 The first mechanical computer was conceived by - Charles Babbage (1835)
 First person ever to transmit speech from one point to another by electrical means - Alexander Graham Bell, Scottish scientist and inventor (1876)
 First dog show - Organized by Charles Cruft, British dog expert (1886)
 First public demonstration of television - John Logie Baird, Scottish electrical engineer gave the first public demonstration of television, transmitting an image of a recognizable human face (1925)
 First antibiotic drug - Penicillin, discovered by Alexander Fleming, Scottish bacteriologist (1928)
 First algorithm written for a computer - Ada Byron's (Ada Lovelace) notes on the analytical engine of Charles Babbage. She is regarded as the first computer programmer (1842)

First working programmable automatic computer - Z3 (1941)

First programmable electronic computer - Colossus, designed by Tommy Flowers (1943)

First Compact Disc (CD) - Jointly developed by two companies, Sony and Philips (1978)

First commercial release of audio music CD - in Japan (1982)

First usage of a webcam - Trojan room coffee pot (1991)

First Hard Disk - IBM's 305 RAMAC. It has a capacity of about 5 MB (1956)

First sound recording - Thomas Alva Edison's phonograph was the first instrument used for recording sound (1877)

First Atom Bomb - "Little Boy" dropped over

Hiroshima by the US during the second world war (1945)



First submarine - Built by Cornelius Drebbel, Dutch inventor and scientist (1620)

First to die in airplane casualty - Thomas E. Selfridge. The casualty occurred when the propeller hit a bracing wire and was broken, throwing the plane out of control, killing Selfridge and seriously injuring Orville Wright (1908)

First successful model glider - Built and flown by George Cayley (1804)

First airplane flight over half an hour - Orville Wright's plane flown up 33 min., 17 sec (1905)

First European airplane flight - Alberto Santos Dumont, a Brazilian, flew a heavier-than-air machine at Bagatelle Field, Paris (1906)

First cross Channel flight - Louis Blériot flew in a monoplane from Les Barraques, France,

to Dover Castle, England, in a 38 kilometer 37 min. flight across the English Channel (1909)

First flight from shipboard - Lt. Eger took a Curtiss plane off from the deck of the cruiser Birmingham at Hampton and flew to Norfolk (1910)

First aircraft to take off from water - Fabre in a Gnome powered floatplane at Martigues, France (1910)

First multi engine aircraft - Built and flown by Igor Ivan Sikorsky while still in exile in Russia (1913)

First aerial combat - Allied and German pilots and observers started shooting at each other with pistols and rifles (1914)

First nonstop transatlantic flight - Capt. Alcock and Lt. Arthur Whitten Brown, Irish World War I flyers, made the 1 mile trip from St. John's, Newfoundland to Clifden, Ireland, in 16 hr., 12 min in a Vickers Vimy bomber (1919)

First nonstop flight around the world without refueling - Dick Rutan and Jeana Yeager flew around the world in a Voyager from Edwards AFB. It covered 24,986.7 miles in 216 hr., 3 min., 44 sec. (1986)

First nonstop solo flight around the world without refueling - Steve Fossett flew Virgin Atlantic Globalflyer around the world from Salina, Kansas. It covered 22,878 miles in 67 hrs (2005)

First round the world solo flight - Wiley Post took a Lockheed Vega, Winnie Mae, 15,596 mi around the world in 7 days, 15 hr. (1933)

First round-the-world nonstop flight - Col. James G. Thompson and a crew of 13 flew a Boeing B-50A around the world nonstop from Ft. Worth, returning to same place. It covered 23,452 miles in 94 hr., 1 min with four aerial refuelings en route (1949)

First nonstop transcontinental flight - Lts. A. Macready and Oakley Kelly flew a

engine Fokker T-2 nonstop from New York to San Diego, a distance of just over 2,500 miles in 26 hr., 50 min (1923)

First solo nonstop transatlantic flight - Charles Lindbergh lifted his Wright-powered Ryan monoplane, Spirit of St. Louis, from Roosevelt Field, N.Y. to Le Bourget Field outside Paris in 33 hr. 39 min. and travel 3,600 miles (1927)

First transatlantic passenger - Charles A. Levine was piloted by Clarence D. Chamberlin from Roosevelt Field, N.Y., to Eisleben, Germany, in a Wright-powered Bellanca (1927)

First transarctic flight - Sir Hubert Wilkins, an Australian explorer, and Carl Ben Eielson, who served as pilot, flew from Point Barrow, Alaska, to Spitsbergen (1928)

First South Pole flight.- Comdr. Richard E. Byrd with Bernt Balchen as pilot, Harold I. June, radio operator, and Capt. A. C. McKinley, photographer, flew a trimotor Fokker from the Bay of Whales, Little America, over the South Pole and back (1929)

First Paris-New York nonstop flight - Dieudonné Costes and Maurice Bellonte, French pilots, flew a Hispano-powered Breguet biplane from Le Bourget Field to Valley Stream, L.I., in 37 hr., 18 min. (1930)

First flight into the stratosphere - Auguste Piccard, a Swiss physicist, and Charles Knipfer ascended in a balloon from Augsburg, Germany, and reached a height of 51,793 ft in a 17-hrs flight (1931)

First nonstop transpacific flight.- Hugh Herndon and Clyde Pangborn took off from Sabishiro Beach, Japan, and flew 4,860 mi to Wenatchee, Wash., in 41 hr. 13 min. (1931)

First successful helicopter flight-Hanna Reitsch, a German pilot, flew Dr. Heinrich Focke's FW-61 in free, fully controlled flight at Bremen. Ms. Reitsch was also the first

woman civil and military aviation test pilot. (1937)

First transatlantic helicopter flight - Capt. Vincent H. McGovern and 1st Lt. Harold W. Moore piloted two Sikorsky H-19s from Westover, Mass., to Prestwick, Scotland. This 3,410 miles rip was made in five stops, with a flying time of 42 hr., 25 min. (1952)

First rocket-engine flight - Fritz von Opel, a German auto maker, stayed aloft in his small rocket-powered craft for 75 sec. covering nearly 2 miles (1928)

First rocket propelled by liquid fuel - Robert Hutchins Goddard launches the first rocket propelled by liquid fuel in Massachusetts. It flew for 2.5 seconds, at 12 metres per second - an average speed of 100 kilometres per hour (1926)

First artificial satellite launched into orbit - Sputnik 1, USSR (1957)

First artificial satellite by the United States - Explorer 1 (1958)

First manned space vehicle - Vostok 1, USSR (1961)

First international co-operative space flight - A US Apollo spacecraft docks with a Soviet Soyuz spacecraft while in Earth orbit. The two flight crews visited each other's spacecraft and had meals together (1975)

First US astronaut to orbit earth -John Glenn (1962)

First manned private spaceflight - 'Space ShipOne' piloted by Mike Melvill (2004)

First fully controlled soft landing on moon - Surveyor 1 (1966)

First spacecraft to orbit Saturn - Cassini-Huygens (2004)

First living creature to orbit the earth - Laika, the dog, aboard the Soviet satellite, Sputnik 2. Laika was asphyxiated after a week in orbit. Her cabin burned up on re-entry to the earth's atmosphere (1957)

First man in space - Yuri Gagarin of USSR. He is the first human to orbit Earth (1961)

First Indian in space - Rakesh Sharma aboard Salyut 7 (1984)

First American in space - Alan B Shepherd (1961)

First human to walk on the Moon - Neil Armstrong, Apollo 11 (1969)

First human to walk in space - Alexei Arkhovich Leonov (1965)

First American to walk in space - Edward Higgins White, Jr. (1965)

First commercial communications satellite - Early Bird, built for the communications satellite corporation (COMSAT) (1965)

First satellite designed to transmit television and high speed data communications - Telstar (1962)

First communications satellite in geosynchronous orbit - Syncom (1963)

First Metal Bridge - Built in the Chinese industrial centre of Jing De Jen, then called Fo Liang Hsien (1100 AD)

First public passenger railway to carry steam

trains - Built by George Stephenson in England - the Stockton and Darlington line using his engine Locomotion' (1825)

First true Bicycle (treadle-propelled) - designed by the Scottish blacksmith Kirkpatrick MacMillan (1839)

World's first underground railway powered by steam - In London (1863)

The first electric underground railway - In London (1890)

First city in India to have electricity - Bangalore. It is the first city in Asia to have electricity. It was powered by the hydro electric plant situated in Shivanasamudra (1906)

World's first traffic lights - The gas lamps installed in London (1868)

First automatic traffic light was invented by Garrett Morgan and first used in Cleveland Ohio, USA (1920)

Compiled by: V. Vijayakumar

What do these Place Names mean?

Accra	ant	Kanchenjunga	five treasures of
Addis Ababa	new flower		the snow
Alaska	great land	Kuala Lumpur	mouth of the muddy river
Annapurna	abundant food	Myanmar	the strong
Australia	southern land	Nepal	fly down
Baghdad	gift of God	Pacific	calm
Bethlehem	house of bread	Sierra Leone	lion mountains
Bihar	monastery	Singapore	lion house
Canada	camp	Sri Lanka	island of the blessed
Ceylon	lion	Srinagar	city of happiness
Copenhagen	merchant's port	Sudan	land of the blacks
Costa Rica	rich coast	Tel Aviv	hill spring
Dar es Salaam	house of peace	Texas	friends
Dublin	black pool	Thailand	free people
Gangtok	hill summit	Tripoli	three towns
Hawaii	place of the gods	Zimbabwe	house of stones

India's Top 300 Cities/Towns

o	Name of the City/ Town	State/ Union territories	Persons	Urban Agglomeration	
			Total	Name	Persons
1	Greater Mumbai (M Corp.)	Maharashtra	11978450	Greater Mumbai UA	16434386
2	Delhi Municipal Corporation	Delhi	9879172	Delhi U.A	12877470
3	Kolkata (M Corp.)	West Bengal	4572876	Kolkata UA	13205697
4	Chennai (M Corp.)	Tamil Nadu	4343645	Chennai UA	6560242
5	Bangalore (M Corp.)	Karnataka	4301326	Bangalore UA	5701446
6	Hyderabad (M Corp.)	Andhra Pradesh	3637483	Hyderabad UA	5742036
7	Ahmadabad (M Corp.)	Gujarat	3520085	Ahmadabad UA	4525013
8	Kanpur (M Corp.)	Uttar Pradesh	2551337	Kanpur UA	2715555
9	Pune (M Corp.)	Maharashtra	2538473	Pune UA	3760636
0	Surat (M Corp.)	Gujarat	2433835	Surat UA	2811614
1	Jaipur (M Corp.)	Rajasthan	2322575		
2	Lucknow (M Corp.)	Uttar Pradesh	2185927	Lucknow UA	2245509
3	Nagpur (M Corp.)	Maharashtra	2052066	Nagpur UA	2129500
4	Indore (M Corp.)	Madhya Pradesh	1474968	Indore UA	1516918
5	Bhopal (M Corp.)	Madhya Pradesh	1437354	Bhopal UA	1458416
6	Ludhiana (M Corp.)	Punjab	1398467		
7	Patna (M Corp.)	Bihar	1366444	Patna UA	1697976
8	Vadodara (M Corp.)	Gujarat	1306227	Vadodara UA	1491045
9	Agra (M Corp.)	Uttar Pradesh	1275134	Agra UA	1331339
0	Thane (M Corp.)	Maharashtra	1262551		
1	Kalyan-Dombivli (M Corp.)	Maharashtra	1193512		
2	Varanasi (M Corp.)	Uttar Pradesh	1091918	Varanasi UA	1203961
3	Nashik (M Corp.)	Maharashtra	1077236	Nashik UA	1152326
4	Meerut (M Corp.)	Uttar Pradesh	1068772	Meerut UA	1161716
5	Faridabad (M Corp.)	Haryana	1055938		
6	Pimpri Chinchwad (M Corp.)	Maharashtra	1012472		
7	Haora (M Corp.)	West Bengal	1007532		
8	Visakhapatnam (M Corp.)	Andhra Pradesh	982904	Visakhapatnam UA	1345938
9	Allahabad (M Corp.)	Uttar Pradesh	975393	Allahabad UA	1042729
0	Ghaziabad (M Corp.)	Uttar Pradesh	968256		
1	Rajkot (M Corp.)	Gujarat	967476	Rajkot UA	1063015
2	Amritsar (M Corp.)	Punjab	966862	Amritsar UA	1003917
3	Jabalpur (M Corp.)	Madhya Pradesh	932484	Jabalpur UA	1093000
4	Coimbatore (M Corp.)	Tamil Nadu	930882	Coimbatore UA	1044119
5	Madurai (M Corp.)	Tamil Nadu	928869	Madurai UA	1003095
6	Srinagar (MC)	Jammu and Kashmir	898440		
7	Aurangabad (M Corp.)	Maharashtra	873311	Aurangabad UA	892423
8	Solapur (M Corp.)	Maharashtra	872478		
9	Vijayawada (M Corp.)	Andhra Pradesh	851282		
0	Jodhpur (M Corp.)	Rajasthan	851051	Jodhpur UA	885822
1	Ranchi (M Corp.)	Jharkhand	847093	Ranchi UA	863450
2	Gwalior (M Corp.)	Madhya Pradesh	827026	Gwalior UA	865142
3	Guwahati (M Corp.)	Assam	809395	Guwahati UA	808810
4	Chandigarh (M Corp.)	Chandigarh	802515		
5	Hubli-Dharwad (M Corp.)	Karnataka	726195		
6	Mysore (M Corp.)	Karnataka	755375	Mysore UA	779172
7	Tiruchirappalli (M Corp.)	Tamil Nadu	752066	Tiruchirappalli UA	761118
8	Thiruvananthapuram (M Corp.)	Kerala	744593	Thiruvananthapuram UA	770611
9	Bareilly (M Corp.)	Uttar Pradesh	712395	Bareilly UA	744111

50	Jalandhar (M Corp.)	Punjab	706043	Jalandhar UA	714077
51	Navi Mumbai (M Corp.)	Maharashtra	704002		
52	Salem (M Corp.)	Tamil Nadu	696760	Salem UA	751438
53	Kota (M Corp.)	Rajasthan	694316	Kota UA	703150
54	Aligarh (M Corp.)	Uttar Pradesh	669087		
55	Bhubaneswar (M Corp.)	Orissa	648032	Bhubaneswar UA	658220
56	Moradabad (M Corp.)	Uttar Pradesh	641583		
57	Gorakhpur (M Corp.)	Uttar Pradesh	622701		
58	Raipur (M Corp.)	Chhatisgarh	605747	Raipur UA	700113
59	Bhiwandi (M CI)	Maharashtra	598741	Bhiwandi UA	621427
60	Kochi (M Corp.)*	Kerala	595575	Kochi UA	1355972
61	Jamshedpur (NA)	Jharkhand	573096		
62	Bhilai Nagar (M Corp.)	Chhatisgarh	556366		
63	Amravati (M Corp.)	Maharashtra	549510		
64	Cuttack (M Corp.)	Orissa	534654	Cuttack UA	587182
65	Warangal (M Corp.)	Andhra Pradesh	530636	Warangal UA	579216
66	Bikaner (M CI)	Rajasthan	529690		
67	Mira-Bhayandar (M CI)	Maharashtra	520388		
68	Guntur (M Corp.)	Andhra Pradesh	514461		
69	Bhavnagar (M Corp.)	Gujarat	511085	Bhavnagar UA	517708
70	Durgapur (M Corp.)	West Bengal	493405		
71	Kolhapur (M Corp.)	Maharashtra	493167	Kolhapur UA	505541
72	Ajmer (M CI)	Rajasthan	485575		
73	Asansol (M Corp.)	West Bengal	475439		
74	Ulhasnagar (M Corp.)	Maharashtra	473731		
75	Siliguri (M Corp.)	West Bengal	472374		
76	Saharanpur (MB)	Uttar Pradesh	455754		
77	Jamnagar (M Corp.)	Gujarat	443518	Jamnagar UA	556956
78	Bhatpara (M)	West Bengal	442385		
79	Sangli-Miraj Kupwad (M Corp.)	Maharashtra	436781	Sangli-Miraj Kupwad UA	447774
80	Kozhikode (M Corp.)	Kerala	436556	Kozhikode UA	880247
81	Nanded-Waghala (M Corp.)	Maharashtra	430733		
82	Ujjain (M Corp.)	Madhya Pradesh	430427	Ujjain UA	431162
83	Dehradun (M Corp.)	Uttaranchal	426674	Dehradun UA	530263
84	Gulbarga (M Corp.)	Karnataka	422569	Gulbarga UA	430265
85	Tirunelveli (M Corp.)	Tamil Nadu	411831	Tirunelveli UA	433352
86	Malegaon (M CI)	Maharashtra	409403		
87	Akola (M CI)	Maharashtra	400520		
88	Belgaum (M Corp.)	Karnataka	399653	Belgaum UA	506480
89	Mangalore (M Corp.)	Karnataka	399565	Mangalore UA	539387
90	Bokaro Steel City (CI)	Jharkhand	393805	Bokaro Steel City UA	497780
91	South Dum Dum (M)	West Bengal	392444		
92	Udaipur (M CI)	Rajasthan	389438		
93	Gaya (M Corp.)	Bihar	385432	Gaya UA	394945
94	Maheshtala (M)	West Bengal	385266		
95	Jhansi (MB)	Uttar Pradesh	383644	Jhansi UA	460278
96	Nellore (M)	Andhra Pradesh	378428	Nellore UA	404775
97	Jammu (MC)	Jammu and Kashmir	369959	Jammu UA	612163
98	Jalgaon (M CI)	Maharashtra	368618		
99	Davanagere (CMC)	Karnataka	364523		
100	Kollam (M Corp.)	Kerala	361560	Kollam UA	380091
101	Panihati (M)	West Bengal	348438		
102	Tiruppur (M)	Tamil Nadu	344543	Tiruppur UA	550826
103	Dhule (M CI)	Maharashtra	341755		
104	Bhagalpur (M Corp.)	Bihar	340767	Bhagalpur UA	350133
105	Rajpur Sonarpur (M)	West Bengal	336707		
106	Thrissur (M Corp.)	Kerala	317526	Thrissur UA	330122
107	Bellary (CMC)	Karnataka	316766		
108	Muzaffarnagar (MB)	Uttar Pradesh	316729	Muzaffarnagar UA	331668
109	Korba (M Corp.)*	Chhatisgarh	315690		
110	Rajahmundry (M Corp.)	Andhra Pradesh	315251	Rajahmundry UA	413616

11	Kamarhati (M)	West Bengal	314507		
12	Ambattur (M)	Tamil Nadu	310967		
13	Brahmapur (M)	Orissa	307792		
14	Ahmadnagar (M CI)	Maharashtra	307615	Ahmadnagar UA	347549
15	Muzaffarpur (M Corp.)	Bihar	305525		
16	Noida (CT)	Uttar Pradesh	305058		
17	Patiala (M Corp.)	Punjab	303151	Patiala UA	323884
18	Mathura (MB)	Uttar Pradesh	302770	Mathura UA	323315
19	New Delhi Municipal Council	Delhi	302363		
20	Latur (M CI)	Maharashtra	299985		
21	Shahjahanpur (MB)	Uttar Pradesh	296662	Shahjahanpur UA	321885
22	Kakinada (M)	Andhra Pradesh	296329	Kakinada UA	376861
23	Kukatpally (M)	Andhra Pradesh	292289		
24	Kulti (M)	West Bengal	289903		
25	Chandrapur (M CI)	Maharashtra	289450		
26	Nizamabad (M)	Andhra Pradesh	288722		
27	Rohtak (M CI)	Haryana	286807	Rohtak UA	294577
28	Bardhaman (M)	West Bengal	285602		
29	Rampur (MB)	Uttar Pradesh	281494		
30	Bhilwara (MCI)	Rajasthan	280128		
31	Firozabad (MB)	Uttar Pradesh	279102	Firozabad UA	432866
32	Bilaspur (M Corp.)*	Chhatisgarh	275694	Bilaspur UA	335293
33	Shimoga (CMC)	Karnataka	274352		
34	Rajarhat Gopalpur (M)	West Bengal	271811		
35	Kurnool (M Corp.)	Andhra Pradesh	269122	Kurnool UA	342973
36	Lal Bahadur Nagar (M)	Andhra Pradesh	268689		
37	Darbhanga (M Corp.)	Bihar	267348		
38	Dasarahalli (CMC)	Karnataka	264940		
39	Panipat (M CI)	Haryana	261740	Panipat UA	354148
40	Bally (M)	West Bengal	260906		
41	Alwar (M CI)	Rajasthan	260593	Alwar UA	266203
42	Parbhani (M CI)	Maharashtra	259329		
43	Gajuwaka (M)	Andhra Pradesh	259180		
44	Ichalkaranji (M CI)	Maharashtra	257610	Ichalkaranji UA	285860
45	Hisar (M CI)	Haryana	256689	Hisar UA	263186
46	Baranagar (M)	West Bengal	250768		
47	Tumkur (CMC)	Karnataka	248929		
48	Ramagundam (M)	Andhra Pradesh	236600	Ramagundam UA	237686
49	Jalna (M CI)	Maharashtra	235795		
50	Durg (M Corp.)	Chhatisgarh	232517		
51	Sagar (M Corp.)	Madhya Pradesh	232133	Sagar UA	308922
52	Bihar (M)	Bihar	232071		
53	Dewas (M Corp.)	Madhya Pradesh	231672		
54	Barasat (M)	West Bengal	231521		
55	Qutubullapur (M)	Andhra Pradesh	231108		
56	Avadi (M)	Tamil Nadu	229403		
57	Farrukhabad-cum-Fatehgarh (MB)	Uttar Pradesh	228333	Farrukhabad-cum-Fatehgarh UA	242997
58	Aizawl (NT)	Mizoram	228280		
59	Tirupati (M)	Andhra Pradesh	228202	Tirupati UA	363521
60	Bijapur (CMC)	Karnataka	228175	Bijapur UA	253251
61	Satna (M Corp.)	Madhya Pradesh	225464	Satna UA	229357
62	Raurkela (M)	Orissa	224987	Raurkela UA	434274
63	Ratlam (M Corp.)	Madhya Pradesh	222202	Ratlam UA	234419
64	Imphal (M CI)	Manipur	221492		
65	Pondicherry (M)	Pondicherry	220865	Pondicherry UA	505955
66	North Dum Dum (M)	West Bengal	220042		
67	Anantapur (M)	Andhra Pradesh	218808	Anantapur UA	243143
68	Ozhukarai (M)	Pondicherry	217767		
69	Bathinda (M CI)	Punjab	217256		
70	Thoothukkudi (M)	Tamil Nadu	216054	Thoothukkudi UA	242415
71	Thanjavur (M)	Tamil Nadu	215314		

172	Naihati (M)	West Bengal	215303		
173	Sonipat (M CI)	Haryana	214974	Sonipat UA	225074
174	Maunath Bhanjan (MB)	Uttar Pradesh	212657		
175	Tiruvottiyur (M)	Tamil Nadu	212281		
176	Hapur (MB)	Uttar Pradesh	211983		
177	Ganganagar (M CI)	Rajasthan	210713	Ganganagar UA	222858
178	Etawah (MB)	Uttar Pradesh	210453		
179	Nagercoil (M)	Tamil Nadu	208179		
180	Karnal (M CI)	Haryana	207640	Karnal UA	221236
181	Raichur (CMC)	Karnataka	207421		
182	Raurkela Industrial Township (ITS)	Orissa	206693		
183	Secunderabad Cantonment Board (CB)	Andhra Pradesh	206102		
184	Karimnagar (M)	Andhra Pradesh	205653	Karimnagar UA	218302
185	Mirzapur-cum-Vindhyachal (MB)	Uttar Pradesh	205053		
186	Bharatpur (M CI)	Rajasthan	204587	Bharatpur UA	205235
187	Ambarnath (M CI)	Maharashtra	203804		
188	Arrah (M)	Bihar	203380		
189	Uluberia (M)	West Bengal	202135		
190	Bommanahalli (CMC)	Karnataka	201652		
191	Dhanbad (M)	Jharkhand	199258	Dhanbad UA	1065327
192	Serampore (M)	West Bengal	197857		
193	Dindigul (M)	Tamil Nadu	196955		
194	Gandhinagar (NAC)	Gujarat	195985		
195	Malkajgiri (M)	Andhra Pradesh	193863		
196	Burhanpur (M Corp.)	Madhya Pradesh	193725		
197	Nadiad (M)	Gujarat	192913	Nadiad UA	196793
198	Eluru (M)	Andhra Pradesh	190062	Eluru UA	215804
199	Agartala MCI	Tripura	189998		
200	Yamunanagar (M CI)	Haryana	189696	Yamunanagar UA	306740
201	Kharagpur (M)	West Bengal	188761	Kharagpur UA	272865
202	Munger (M)	Bihar	188050		
203	Pali (MCI)	Rajasthan	187641		
204	Murwara (Katni) (M Corp.)	Madhya Pradesh	187029		
205	Krishnarajapura (CMC)	Karnataka	186210		
206	Sikar (M CI)	Rajasthan	185323	Sikar UA	185925
207	Singrauli (M Corp.)	Madhya Pradesh	185190		
208	Nalasopara (M CI)	Maharashtra	184538		
209	Rewa (M Corp.)	Madhya Pradesh	183274		
210	Sambhal (MB)	Uttar Pradesh	182478		
211	Byatarayanapura (CMC)	Karnataka	181744		
212	Machilipatnam (M)	Andhra Pradesh	179353		
213	Chapra (M)	Bihar	179190		
214	Vellore (M)	Tamil Nadu	177230	Vellore UA	386746
215	Alappuzha (M)	Kerala	177029	Alappuzha UA	282675
216	Bulandshahr (MB)	Uttar Pradesh	176425		
217	Hardwar (MB)	Uttaranchal	175340	Hardwar UA	220767
218	Katihar (M)	Bihar	175199	Katihar UA	190873
219	Vizianagaram (M)	Andhra Pradesh	174651	Vizianagaram UA	195801
220	Gurgaon (M CI)	Haryana	172955	Gurgaon UA	228820
221	Bidar (CMC)	Karnataka	172877	Bidar UA	174257
222	Bhusawal (M CI)	Maharashtra	172372	Bhusawal UA	187564
223	Khandwa (M Corp.)	Madhya Pradesh	172242		
224	Purnia (M)	Bihar	171687	Purnia UA	197211
225	Haldia (M)	West Bengal	170673		
226	Hugli-Chinsurah (M)	West Bengal	170206		
227	Bhiwani (M CI)	Haryana	169531		
228	Rae Bareilly (MB)	Uttar Pradesh	169333		
229	Junagadh (M)	Gujarat	168515	Junagadh UA	252108
230	Bahraich (MB)	Uttar Pradesh	168323		
231	Mango (NA)	Jharkhand	166125		
232	Raiganj (M)	West Bengal	165212	Raiganj UA	175047

233	Amroha (MB)	Uttar Pradesh	165129		
234	Sultan Pur Majra (CT)	Delhi	164426		
235	Hospet (CMC)	Karnataka	164240		
236	Bidhan Nagar (M)	West Bengal	164221		
237	Chandannagar (M Corp)	West Bengal	162187		
238	English Bazar (M)	West Bengal	161456	English Bazar UA	224415
239	Sirsa (M CI)	Haryana	160735		
240	Bhadravati (CMC)	Karnataka	160662		
241	Baharampur (M)	West Bengal	160143	Baharampur UA	170322
242	Jaunpur (MB)	Uttar Pradesh	160055		
243	Khammam (M)	Andhra Pradesh	159544	Khammam UA	198620
244	Kapra (M)	Andhra Pradesh	159002		
245	Cuddalore (M)	Tamil Nadu	158634		
246	Pathankot (M CI)	Punjab	157925	Pathankot UA	168485
247	Puri (M)	Orissa	157837		
248	Adoni (M)	Andhra Pradesh	157305	Adoni UA	162458
249	Surendranagar Dudhrej (M)	Gujarat	156161		
250	Madhyamgram (M)	West Bengal	155451		
251	Gadag-Betigeri (CMC)	Karnataka	154982		
252	Kirari Suleman Nagar (CT)	Delhi	154633		
253	Tenali (M)	Andhra Pradesh	153756		
254	Bhind (M)	Madhya Pradesh	153752		
255	Sambalpur (M)	Orissa	153643	Sambalpur UA	226469
256	Senlingampally (M)	Andhra Pradesh	153364		
257	Kancheepuram (M)	Tamil Nadu	153140	Kancheepuram UA	188733
258	Nandyal (M)	Andhra Pradesh	152676	Nandyal UA	157120
259	Chittoor (M)	Andhra Pradesh	152654		
260	Bhalswa Jahangir Pur (CT)	Delhi	152339		
261	Fatehpur (MB)	Uttar Pradesh	152078		
262	Sitapur (MB)	Uttar Pradesh	151908		
263	Gandhidham (M)	Gujarat	151693		
264	Morena (M)	Madhya Pradesh	150959		
265	Nangloi Jat (CT)	Delhi	150948		
266	Erode (M)	Tamil Nadu	150541		
267	Ongole (M)	Andhra Pradesh	150471	Ongole UA	153829
268	Uttarpara Kotrung (M)	West Bengal	150363		
269	Proddatur (M)	Andhra Pradesh	150309		
270	Proddatur (M)	Andhra Pradesh	150309		
271	Medinipur (M)	West Bengal	149769		
272	Hoshiarpur (M CI)	Punjab	149668		
273	Karawal Nagar (CT)	Delhi	148624		
274	Bharuch (M)	Gujarat	148140		
275	Budaun (MB)	Uttar Pradesh	148029		
276	Shivpuri (M)	Madhya Pradesh	146892		
277	Alandur (M)	Tamil Nadu	146287		
278	Morvi (M)	Gujarat	145719		
279	Faizabad (MB)	Uttar Pradesh	144705		
280	Unnao (MB)	Uttar Pradesh	144662		
281	Pallavaram (M)	Tamil Nadu	144623		
282	Barackpur (M)	West Bengal	144391		
283	Rajnandgaon (M Corp.)	Chhattisgarh	143770		
284	Rajendranagar (M)	Andhra Pradesh	143240		
285	Shimla (M Corp.)	Himachal Pradesh	142555	Shimla UA	144975
286	Silchar (MB)	Assam	142199		
287	Robertson Pet (CMC)	Karnataka	141424		
288	Veraval (M)	Gujarat	141357		
289	Panchkula Urban Estate (EO)	Haryana	140925		
290	Kumbakonam (M)	Tamil Nadu	139954		
291	Orai (MB)	Uttar Pradesh	139318		
292	Ambala (M CI)	Haryana	139279		
293	Krishnanagar (M)	West Bengal	139110	Krishnanagar UA	148709

294	Santipur (M)	West Bengal	138235		
295	Bid (M CI)	Maharashtra	138196		
296	Tambaram (M)	Tamil Nadu	137933		
297	Bhimavaram (M)	Andhra Pradesh	137409	Bhimavaram UA	142064
298	Guna (M)	Madhya Pradesh	137175		
299	Jind (M CI)	Haryana	135855		
300	Mahadevapura (CMC)	Karnataka	135794		
301	Balurghat (M)	West Bengal	135737	Balurghat UA	143321
302	Tonk (M CI)	Rajasthan	135689		

Source: Census of India 2001 Compiled By: Samuel.O. Poruvazhy

Abbreviations Used

C.B.	Cantonment Board/Cantonment	M.Corp.	Municipal Corporation/Corporation
C.M.C	City Municipal Council	N.A.	Notified Area
E.O	Estate Office	N.A.C	Notified Area Committee/Notified Area Council
I.T.S.	Industrial Township	N.T	Notified Town
M	Municipality	C.T	Census Town
M.B.	Municipal Board	U.A	Urban Agglomeration
M.C	Municipal Committee		
M.CI	Municipal Council		

Urban Areas

The unit of classification is 'town' for urban areas. In the Census of India 2001, the definition of urban area adopted is as follows: (a) All statutory places with a municipality, corporation, cantonment board or notified town area committee, etc. (b) A place satisfying the following three criteria simultaneously:

- a minimum population of 5,000;
- at least 75 per cent of male working population engaged in nonagricultural pursuits; and
- a density of population of at least 400 per sq. km. (1,000 per sq. mile).

Urban Agglomeration

An Urban Agglomeration is a continuous urban spread constituting a town and its adjoining urban outgrowths (OGs) or two or more physically contiguous towns together and any adjoining urban outgrowths of such towns. Examples of OGs are railway colonies, university campuses, port areas, etc., that may come up near a city or statutory town outside its statutory limits but within the revenue limits of a village or villages contiguous to the town or city. Each such individual area by itself may not satisfy the minimum population limit to qualify it to be treated as an independent urban unit but may deserve to be clubbed.

For the purpose of delineation of Urban Agglomerations during Census of India 2001, following criteria are taken as pre-requisites: (a) The core town or at least one of the constituent towns of an urban agglomeration should necessarily be a statutory town; and (b) The total population of all the constituents (i.e. towns and outgrowths) of an Urban Agglomeration should not be less than 20,000 (as per the 1991 Census). With these two basic criteria having been met, the following are the possible different situations in which Urban Agglomerations would be constituted: (i) a city or town with one or more contiguous outgrowths; (ii) two or more adjoining towns with their outgrowths; and (iii) a city and one or more adjoining towns with their outgrowths all of which form a continuous spread.

City

Towns with population of 1,00,000 and above are called cities

Household

A 'household' is usually a group of persons who normally live together and take their meals from a common kitchen unless the exigencies of work prevent any of them from doing so. Persons in a household may be related or unrelated or a mix of both. However, if a group of unrelated persons live in a census house but do not take their meals from the common kitchen, then they are not constituent of a common household. Each such person was to be treated as a separate household. The important link in finding out whether it was a household or not was a common kitchen. There may be one member households, two member households or multi-member households.

Source: Census of India 2001

Compiled By: Samuel.O. Poruvazhy

Historic Assassinations since 1901

Who	Where	By Whom	When
William McKinley, US President	Baffalo, N.York	Leon Czolgosz	06-09-1901
Rasputin, Russian Monk	Russia	A group of noblemen	31-12-1916
Francis Ferdinand, Archduke of Austria-Hungary	Sarajevo	Gavrilo Princip	28-06-1914
Mahatma Gandhi, India's 'Father of the Nation'	Delhi	Nathuram Godse	30-01-1948
Abdullah ibn-Hussein King of Jordan	Jerusalem	Young Palestinian Arab	20-07-1951
Patrice Lumumba, Former premier of Zaire	Katanga Province	Probably by followers of President J. Kasavubu	17-01-1961
Ngo Dinh Diem South Vietnam President	Saigon	A military coup	02-11-1963
John F. Kennedy, US President	Dallas, Tex	Lee Harvey Oswald	22-11-1963
Robert F. Kennedy, US Senator and Presidential Candidate	Los Angeles, Calif	Sirhan-Sirhan	05-06-1968
Indira Gandhi, Indian PM	Delhi	Sikh bodyguards	31-10-1984
Rajiv Gandhi, Former Prime Minister of India	Near Madras	Suspected LTTE suicide bomber	21-05-1991
King Birendra, Queen Aiswarya and 7 other royals	Kathmandu	Crown Prince Dipendra	01-06-2001

Names: Old and New

Countries and Cities have changed their names over the years.

New Names	Old Names
ASOM	Assam
BANJUL	Bathurst
BEIJING	Peking
BELIZE	British Honduras
BENIN	Dahomey
BOTSWANA	Bechuanaland
BURKINA FASO	Upper Volta
CAMBODIA	Kampuchea; Khmer
CHENNAI	Madras

CONGO	Zaire	TAIWAN	Formosa
DJIBOUTI	French Somaliland,	TASMANIA	Van Diemen's Land
	French Territory of Afars & Issas	THAILAND	Siam
ETHIOPIA	Abyssinia	TOGO	Togoland
GHANA	Gold Coast	TUVALU	The Ellice Islands
GUYANA	British Guiana	VANUATU	The New Hebrides
HANOI	Kecho	YANGON	Rangoon
HARARE	Salisbury	ZAMBIA	Northern Rhodesia
HO CHI MINH CITY	Saigon	ZIMBABWE	Southern Rhodesia
INDONESIA	Dutch East Indies		
	(Netherlands East Indies)		
IRAN	Persia		
IRAQ	Mesopotamia		
ISTANBUL	Constantinople, Byzantium		
JAKARTA	Batavia		
KINSHASA	Leopoldville		
KOLKATA	Calcutta		
LAOS	Lanxang		
LESOTHO	Basutoland		
MALAWI	Nyasaland		
MALABO	Santa Isable		
	(Cap.of Equa-Guinea)		
MUMBAI	Bombay		
MYANMAR	Burma		
NAMIBIA	South West Africa		
NAURU	Pleasant Island		
OSLO	Christiana		
PUDUCHERRY	Pondicherry		
SRI LANKA	Ceylon		
STALINGRAD	Volgograd		
ST.PETERSBURG	Leningrad		
SURINAME	Dutch Guyana		

Country Symbols

Country	Symbol
India	Royal Bengal tiger
Canada	Maple leaf
USA	Bald eagle
Colombia	Orchid
Spain	Red carnation
Russia	Brown bear
Japan	Cherry blossom
Denmark	Beech tree
South Africa	Blue crane
Greece	Olive branch
China	Dragon
Argentina	Ceibo (flower)
Bulgaria	Lion
England	Rose
Wales	Leek, dragon
Scotland	Thistle
Turkey	Tulip
Australia	Golden wattle flower
Ireland	Shamrock

Sobriquets

Places

Sobriquets	Primary Names
Bengal's Sorrow	River Damodar
City of the Golden Gate	San Francisco, USA

City of the Golden Temple	Amritsar
City of Dreaming Spires	Oxford, UK
City of Seven Hills/Eternal City	Rome
Crucible of Europe	Belgium
Dark Continent	Africa
Emerald Island	Ireland
Empire City/City of Skyscrapers	New York, USA
Golden City	Bangalore
Gate of Tears	Bab-el-mandab
Gateway of India	Bombay
Gift of the Nile	Egypt
God's Own Country	Kerala
Graveyard Pond	Atlantic Ocean
Holy Land	Palestine
Hermit Kingdom/Land of Morning Calm	Korea
Island of Cloves	Zanzibar
Island of Pearls	Bahrain
Key of the Mediterranean	Gibraltar
Land of Cakes	Scotland
Land of the Humming Bird	Trinidad
Land of the Kangaroo/Land of the Golden Fleece	Australia
Land of the Golden Pagoda	Myanmar (Burma)
Land of Lilies/Land of Maple/Lady of Snow	Canada
Land of the Midnight Sun	Norway
Land of the Rising Sun	Japan
Land of Thousand Lakes	Finland
Land of Thunderbolt	Bhutan
Land of the White Elephants	Thailand
Land of the Ever Never Land	Prairies of N. Australia
Little Pink City	Jaipur
Switzerland of Europe	Switzerland
Queen of the Adriatic	Venice, Italy
Queen of the Arabian Sea	Kochi
Roof of the World	Pamirs
Sick Man of Europe	Turkey
Sorrow of China/Yellow River River	Hwang Ho
Spice Garden of India	Kerala
Sugar Bowl of the World	Cuba
Sea of Mountains	British Colombia
Spice Island of the West	Grenada
Venice of the East	Alappuzha
Venice of the North	Stockholm, Sweden
White City	Belgrade, Yugoslavia

World's Breadbasket	Prairies of N. America
World's Loneliest Island	Tristan da Cunha

Persons

Obriquet	Name
Di Kavi	Valmeeki
Anna	C.N. Annadurai
Adshah Khan/Frontier Gandhi	Abdul Ghaffar Khan
ard of Avon	William Shakespeare
ard of Twickenham	Alexander Pope
eenabandhu	C.F. Andrews
eshbandhu	C.R. Das
esert Fox	Gen. Erwin Rommel
e Dwight	David Eisenhower
hrer	Adolf Hitler
Duce	Benito Mussolini
., Loknayaak	Jayaprakash Narayan
aviguru	Rabindranath Tagore
dy with the Lamp Florence	Nightingale
okamanya	Bala Gangadhara Thilak
ahamana	Madan Mohan Malaviya
ahatma	Gandhiji
aid of Orleans	Joan of Arc
an of Blood and Iron	Bismarck
letaji	Subhas Chandra Bose
anditji	Jawaharlal Nehru
aid-e-Azam	Mohammed Ali Jinnah
ajaji.or 'CR'	C. Rajagopalachari
aint of the Gutters	Mother Teresa
he Cincinnatus of the Americans	George Washington

Nicknames

ather of Greek Tragedy	Aeschylus
ather of Comedy	Aristophanes
ather of Australia	Sir Edmund Barton
ather of the Telephone	Alexander Graham Bell

ther of Sunday Newspapers	John Bell
ther of Utilitarianism	Jeremy Bentham
ther of Chemistry	Robert Boyle
ther of Canada	Jacques Cartier
ther of English Poetry	Geoffery Chaucer
ther of English Printing	William Caxton
ther of Aviation	Sir George Cayley
ther of the Irish Republic	Eamon De Valera
ther of Immunology	Edward Jenner
ther of Penguin Paperbacks	Allen Lane
ther of Modern Chemistry	Antoine Lavoisier
ther of the Atom Bomb	Dr. Robert Oppenheimer
ther of the Detective Story	Edgar Allen Poe
ther of Nuclear Physics	Ernest Rutherford
ther of Economics	Adam Smith
ther of Railways	George Stephenson
ther of Angling	Izaak Walton

PIOs in Power Abroad

No	Name	Country	Year	Post
1.	Mahendra Chaudhary	Fiji	1999	Prime Minister
2.	C.V. Devan Nair	Singapore	1981	President
3.	S.R. Nathan	Singapore	1999	President
4.	Mahathir Mohammed	Malaysia	1981	Prime Minister
5.	Cheddi Jagan	Guyana	1953	Prime Minister
			1992	President
6.	Bharat Jagdeo	Guyana	1999	President
7.	Sir Shirsagar Ramgoolam	Mauritius	1988	Prime Minister
8.	Naveen Chandra Ramgoolam	Mauritius	1995	Prime Minister
9.	Annerood Jugnauth	Mauritius	1882	Prime Minister
10.	Veerasamy Ringadoo	Mauritius	1992	President
11.	Cassam Uteem	Mauritius	1992	President
12.	Noor Hassanani	Trinidad & Tobago	1988	President
13.	Basudev Pande	Trinidad & Tobago	1988	Prime Minister
14.	Jules Wijdenbosch	Suriname	1988	President
15.	Krishnaprasad Bhattarai	Nepal	1988	Prime Minister
16.	Manmohan Adhikari	Nepal	1988	Prime Minister

Phobias

Phobia is the unreasonable, unrealistic and excessive fear to a particular object, objects or situation.

Acrophobia: heights
Aerophobia: open spaces
Allophobia: cats
Androphobia: men
Arachnophobia: spiders
Arithmophobia: numbers
Astraphobia: failure
Austrophobia: gold
Bacillophobia: ugliness
Cancerphobia: cancer

Ceraunophobia: thunder
Chaetophobia: hair
Chrometophobia: money
Cibophobia: food
Claustrophobia: confined spaces
Dentophobia: dentists
Dipsophobia: drinking
Domatophobia: houses
Electrophobia: electricity
Enochlophobia: crowds
Febrilephobia: fever
Gerascophobia: growing old
Heliophobia: the sun
Hydrophobia: water

Kenophobia: empty spaces
Lachanophobia: vegetables
Methyphobia: alcohol
Motorphobia: automobiles
Noctiphobia: night
Nosocomophobia: hospitals
Ombrophobia: rain
Ophidiophobia: snakes
Pharmacophobia: medicines
Plutophobia: wealth
Trypanophobia: injections
Venustraphobia: beautiful women
Xenophobia: strangers
Zoophobia: animals

National Days

January

1. Cuba, Liberation Day; Palestine, Revolution Day; Sudan* 4. Myanmar, Independence Day, 15. Croatia, Statehood Day (Celebration in India), 24. Togo* (celebrated on January 13), 26. Australia, Australia Day; Irish Republic Day, 31. Nauru, National Day.

February

1. Sri Lanka, Independence Commemoration Day (6) New Zealand, New Zealand Day, Grenada* 11. Iran, Victory of Islamic Revolution in Iran, 16. Lithuania* Korea, DPR, Birth-

day of Great Leader Com. Kim Jong Il, 23. Brunei Darussalam* 24. Estonia* 25. Kuwait* 27. S.A.D.R, Proclamation of S.A.D.R.

March

3. Bulgaria/Morocco* 6. Ghana* 12. Mauritius* 15. Italy* (Celebration in India), 17. Ireland, St. Patrick's Day, 20. Tunisia* 21. Namibia* 23. Pakistan* 25. Greece, Independence Day, 26. Bangladesh*.

April

4. Senegal* 15. DPR Korea, Kim Il Sung's Birthday, 16. Denmark, Birthday of H.M.

The Queen, 17. Syria* 18. Zimbabwe* 21. U.K., Queen's Birthday (Celebration in India), 26. Tanzania* 27. South Africa Freedom Day; Yugoslavia, Constitution Day, 28. Afghanistan, Anniversary of the Victory of Jihad, 30. Netherlands, Queen's Birthday.

May

3. Poland, Anniversary of 1791 Constitution of Poland, 9. European Commission, Europe Day, 10. Israel* 17. Norway, Constitution Day, 22. Yemen* 25. Argentina* Jordan, Independence Day, 28. Ethiopia* 30. Croatia, Statehood Day

June

2. Italy* 6. Sweden* 10. Portugal* 11. U.K., Queen's Official Birthday, 12. Philippines, Proclamation Independence of Philippine; Russia, Independence Day, 14. Seychelles* 17. Iceland* 23. Luxembourg* 30. Congo*.

July

1. Canada, Canada Day; Somalia* 3. Belarus, Independence Day, 4. U.S.A, Independence Day; Rwanda* Venezuela* 6. Comoros* 11. Mongolia, Anniversary of the National Festival NAADAM, 14. France* 17. Iraq, Republic Day, 20. Colombia, Independence Day, 21. Belgium* 23. Egypt* 26. Maldives, Independence Day, 28. Peru, Independence Day

August

1. Benin* Foundation of the Swiss Confederation, 5. Burkina Faso, Independence Day, 6. Bolivia* 7. Cote d'Ivoire* 9. Singapore* 10. Ecuador* 15. Republic of Korea/India, Independence Day, 17. Indonesia, Independence Day, 19. Afghanistan, Independence Day, 20. Hungary* 24. Ukraine, Independence Day, 25.

Uruguay* 31. Malaysia, Malaysia Day; Kyrgyzstan* Trinidad & Tobago, Independence Day

September

1. Libya/Slovakia* Uzbekistan, Independence Day, 2. Vietnam* 3. Qatar* 7. Brazil, Independence Day, 9. Democratic People's, Anniversary of the Founding of the; Republic of Korea, Democratic People's Republic of Korea; Tajikistan* 15. Costa Rica/Gambia/Nicaragua* 16. Mexico/Papua New Guinea, Independence Day, 18. Chile, Independence Day, 21. Armenia, Independence Day; Belize/Malta* 22. Mali* 23. Saudi Arabia*.

October

1. China/Nigeria* Cyprus, Independence Day, 2. Guinea* 3. Germany, Day of German Unity, 9. Uganda, Independence Day, 12. Spain* 21. San Marino* 24. United Nations, UN Day; Zambia* 25. Kazakhstan* 26. Austria* 27. Turkmenistan, Independence Day, 28. Czech* 29. Turkey, Anniversary of the Declaration of the Republic

November

1. Algeria* 3. Dominica, Commonwealth of Panama* 9. Cambodia, Independence Day, 11. Angola, Independence Day, 15. Belgium, King's Day; Palestine, Independence Day, 18. Latvia Oman* 19. Monaco* 22. Lebanon* 25. Surinam*.

December

1. Romania* Iceland, Independence Day, 2. Laos, Founding of the Lao People's Democratic Republic; United Arab Emirates*, 5. Thailand, Birthday of H.M. the King, 6. Finland, Independence Day, 11. Burkina Faso*, 12. Kenya*, 17. Bhutan* 18. Niger* 23. Japan, Birthday of H.M. the Emperor, 28. Nepal, Birthday of H.M. the King.

**National Day*

First Ten Women Rulers of the World

Name	Country	Year	
1. Suhbaataryn Yanjmaa	Mongolia	1953-54	Acting Pre
2. Sinmavo Bandaranaike	Sri Lanka	1960-65, 1970-77, 1994-2000	Prime Min
3. Indira Gandhi	India	1966-77, 1980-84	Prime Min
4. Hilda Gibbs-Bynoe	Grenada	1967-72	Gove
5. Golda Meir	Israel	1969-74	Prime Min
6. Maria Isabel Peron	Argentina	1974-76	Presid
7. Elisabeth Domitien	Cen. African Rep.	1975-76	Prime Minis
8. Lucinda da Costa			
Gomez Matheeuws	Netherlands Antilles	1977	Prime Minist
9. Doris Louise Johnson	Bahamas	1979	Acting Governor Gener
10. Lydia Gveiler Tejada	Bolivia	1979-80	Acting Presiden

Foreign Born Rulers

	Country	Post	Born in
Mem	Argentina		Syria
Ujimori	Peru	President	Japan
Bucaram	Ecuador	President	Lebanon
Jagan	Guyana	President	America
"Hitler"	Germany	Chancellor	Austria
Kenneth Kaunda	Zambia	President	Malawi
Hendrick Verwoerd	South Africa	Prime Minister	Holland
Adrene Poi Clarkson	Canada	Gov- General	Hong Kong

Most Common Surnames

China	: Li	Netherlands	: De Vries
France	: Martin	Russia	: Ivanov
Germany	: Muller	Spain	: Garcia
Italy	: Rossi	Sweden	: Johansson
		UK/USA	: Smith

Presidents of USA since 1953

Name & (party) ¹	Term	Age at inaug	Age at Death
Dwight D. Eisenhower (R)	1953-1961	62	78
John F. Kennedy (D)*	1961-1963	43	46
Lyndon B. Johnson (D)	1963-1969	55	64
Richard M. Nixon (R)**	1969-1974	56	81
Gerald R. Ford (R)	1974-1977	61	
Jimmy Carter (D)	1977-1981	52	-
Ronald Reagan (R)	1981-1989	69	93
George H.W. Bush (R)	1989-1993	64	-
William J. Clinton (D)	1993-2001	46	-
George W. Bush (R)	2001-	54	-

¹-Republican; D-Democratic; *Assassinated in office; **Resigned Aug.9, 1974

British Prime Ministers since 1940

Winston Churchill (Conservative)	1940-1945
Clement R Attlee (Labour)	1945-1951
Winston Churchill (Conservative)	1951-1955
Anthony Eden (Conservative)	1955-1957
Harold Macmillan (Conservative)	1957-1963
Alec Douglas-Home (Conservative)	1963-1964
Harold Wilson (Labour)	1964-1970
Edward Heath (Conservative)	1970-1974
Harold Wilson (Labour)	1974-1976
James Callaghan (Labour)	1976-1979
Margaret Thatcher (Conservative)	1979-1990
John Major (Conservative)	1990-1997
Tony Blair (Labour)	1997

Leaders of Russia

Name	Term		
USSR		Yuri Andropov	1982-4
		Konstantin Chernenko	1984-85
		Mikhail Gorbachev	1985-91
General Secretaries			
Joseph Stalin	1922-53	Russian Federation	
Nikolai Malenkov	1953	Presidents	
Nikita Khrushchev	1953-64	Boris Yeltsin	1991-99
Leonid Brezhnev	1964-82	Vladimir Putin	1999-

Presidents of France

Name	Term		
Presidents		Georges Pompidou	1969-74
Charles de Gaulle	1958-69	Valéry Giscard d'Estaing	1974-81
		François Mitterrand	1981-95
		Jacques René Chirac	1995-

Presidents of People's Republic of China

Name	Term		
Presidents		Song Qingling	1976-78
Mao Zedong	1949-59	Ye Jianying	1978-83
Li Shaoqi	1959-68	Li Xiannian	1983-88
Long Biju	1968-75	Yang Shangkun	1988-93
Hu De	1975-76	Jiang Zemin	1993-2003
		Hu Jintao	2003 -

Members' Contribution (per cent) to UN Budget (2004)

USA	22 p.c	U.K.	6.127
Japan	19.468	France	6.030
Germany	8.662	China	2.053

Past Professions of Celebrities

Aesop	Slave	John Boyd Dunlop	Vet
Alex Harvey	Lion Tamer	John Mills	Toilet Paper Salesman
Alighieri Dante	Embassy Official	Jonathan Swift	Clergyman
Antoine Laurent Lavoisier	Tax Collector	Joseph Goebbels	Newspaper Editor
Benjamin Disraeli	Novelist	Jules Verne	Librettist
Benjamin Franklin	Printer	Julius Nyerere	Teacher
Cary Grant	Acrobat	Lech Walesa	Electrician
Casanova	Librarian, Spy, Lottery Director	Marcello Mastroianni	Draughtsman
Clement Attlee ...	Lawyer and Social Worker	Nelson Mandela	Lawyer
Clint Eastwood	Swimming Instructor	Noah Webster	Lawyer
Desmond Tutu	Schoolteacher	Norodom Sihanouk	Musician
Emile Zola	Journalist	Ronald Regan	Actor
George Orwell	Policeman	Samuel Morse	Artist
Giuseppe Garibaldi .	Candlemaker, Privateer	Sir Walter Scott	Lawyer
Gregor Mendel	Monk	Thomas Hardy	Architect
Henrik Ibsen	Pharmacist	Thomas Malthus	Clergyman
Issac Asimov	Biochemist	Valentina Tereshkova	Cotton Mill worker
James Callaghan	Tax Official	Walter De La Mare	Oil Company
Jean Genet	Professional Criminal		Worker
	and Male Prostitute	WG Grace Doctor
Johann von Goethe ..	Fire Chief, Newspaper	William Faulkner	Postmaster
	Critic and Court Official	William Wordsworth ..	Stamp Distributor

The Seven Wonders of the World

Seven monuments of the ancient world that appeared on various lists of late antiquity are known as the:

Seven Wonders of the World

1. The Colossus of Rhodes
 2. The Pharos (lighthouse) at Alexandria
 3. The Hanging Gardens (and Walls) of Babylon
 4. The temple of Artemis (or Diana) at Ephesus
 5. The Pyramids of Khufu
 6. The tomb of Mausolus at Halicarnassus
 7. The statue of Zeus at Olympia
- The tradition of "Seven

inspired succeeding generations to compile countless lists since the Alexandrian era.

Seven Wonders of the Middle Ages

1. The Colosseum of Rome
2. The Catacombs of Alexandria
3. The Great Wall of China
4. Stonehenge
5. The Porcelain Tower (or Pagoda) of Nanking, China
6. The Leaning Tower of Pisa, Italy
7. Hagia Sophia (or Sancta Sophia) of Constantinople

Seven Natural Wonders of the World

1. The Grand Canyon, Colorado River, Arizona
2. Rio de Janeiro harbour
3. Iguassu Falls, Argentina
4. Yosemite Valley and the Giant Sequoias of California
5. Mount Everest, on the border of Tibet and Nepal
6. The Nile River, Egypt

7. The Northern Lights, especially from northern Canada and Alaska.

Seven Wonders of Today

1. The Great Pyramid of Egypt and the adjacent Great Sphinx of Gizeh
2. Hagia Sophia, 6th century, in present-day Istanbul
3. Leaning Tower of Pisa, Italy
4. The Taj Mahal of Agra, India
5. The Washington Monument, Washington
6. The Eiffel Tower, Paris
7. The Empire State Building, New York city.

Other compilers of 'wonder' lists include the Panama Canal, the Greek Parthenon on the Acropolis at Athens, the medieval Mont-Saint Michel off the coast of France, St. Peter's Church in Rome, and the temples of Nikko National Park in Honshu, Japan. Famous palaces and ruins include the Moorish Alhambra of Granada, Angkor in Cambodia, Mayan ruins like Chichen Itza in Mexican Yucatan, Inca ruins in Peru, and Egypt's Great Temple of Amon in Karnak.

World's Tallest Buildings

Rank	Tower/City	Year	Storeys	Height	
				(m)	(ft)
1.	Taipei 101, Taipei, Taiwan	2004	101	509	1,670
2.	Petronas Tower 1, Kuala Lumpur, Malaysia	1998	88	452	1,483
3.	Petronas Tower 2, Kuala Lumpur, Malaysia	1998	88	452	1,483
4.	Sears Tower, Chicago	1974	110	442	1,450
5.	Jin Mao Building, Shanghai	1999	88	421	1,380

1. World Trade Center twin towers of New York City ranked fifth and sixth (at 1,368 ft and 1,362 ft) on this list until their destruction on Sept. 11, 2001; 2. A building differs from a tower in that the former is considered to be a structure that is designed for residential, business, or manufacturing purposes. Also, an essential characteristic of a building is that it has floors.

World's Tallest Towers

No. Tower/City	Year	Height	
		(m)	(ft)
Canadian National (CN) Tower, Toronto, Canada	1975	553	1,815
Ostankino Tower, Moscow, Russia	1967	537	1,762
Oriental Pearl Tower, Shanghai, China	1995	468	1,535
Milad Tower, Tehran, Iran	2005	435	1,427
Menara Kuala Lumpur, Kuala Lumpur, Malaysia	1996	421	1,403

Oscar Awards

1928 <i>Wings</i>	1948 <i>Hamlet</i>	1968 <i>Oliver!</i>
1929 <i>The Broadway Melody</i>	1949 <i>All the King's Men</i>	1969 <i>Midnight Cowboy</i>
1930 <i>All Quiet on the Western Front</i>	1950 <i>All About Eve</i>	1970 <i>Patton</i>
1931 <i>Cimarron</i> , RKO Radio	1951 <i>An American in Paris</i>	1971 <i>The French Connection</i>
1932 <i>Grand Hotel</i>	1952 <i>The Greatest Show on Earth</i>	1972 <i>The Godfather</i>
1933 <i>Cavalcade</i>	1953 <i>From Here to Eternity</i>	1973 <i>The Sting</i>
1934 <i>It Happened One Night</i>	1954 <i>On the Waterfront</i>	1974 <i>The Godfather</i>
1935 <i>Mutiny on the Bounty</i>	1955 <i>Marty</i>	1975 <i>One Flew Over the Cuckoo's Nest</i>
1936 <i>The Great Ziegfeld</i>	1956 <i>Around the World in 80 Days</i>	1976 <i>Rocky</i>
1937 <i>The Life of Emile Zola</i>	1957 <i>The Bridge on the River Kwai</i>	1977 <i>Annie Hall</i>
1938 <i>You Can't Take It with You</i>	1958 <i>Gigi</i>	1978 <i>The Deer Hunter</i>
1939 <i>Gone with the Wind</i>	1959 <i>Ben-Hur</i>	1979 <i>Kramer vs. Kramer</i>
1940 <i>Rebecca</i>	1960 <i>The Apartment</i>	1980 <i>Ordinary People</i>
1941 <i>How Green Was My Valley</i>	1961 <i>West Side Story</i>	1981 <i>Chariots of Fire</i>
1942 <i>Mrs. Miniver</i>	1962 <i>Lawrence of Arabia</i>	1982 <i>Gandhi</i>
1943 <i>Casablanca</i>	1963 <i>Tom Jones</i>	1983 <i>Terms of Endearment</i>
1944 <i>Going My Way</i>	1964 <i>My Fair Lady</i>	1984 <i>Amadeus</i>
1945 <i>The Lost Weekend</i>	1965 <i>The Sound of Music</i>	1985 <i>Out of Africa</i>
1946 <i>The Best Years of Our Lives</i>	1966 <i>A Man for All Seasons</i>	1986 <i>Platoon</i>
1947 <i>Gentleman's Agreement</i>	1967 <i>In the Heat of the Night</i>	1987 <i>The Last Emperor</i>
		1988 <i>Rain Man</i>
		1989 <i>Driving Miss Daisy</i>

<i>Dances With Wolves</i>	1995 <i>Braveheart</i>	2001 <i>A Beautiful Mind</i>
<i>The Silence of the Lambs</i>	1996 <i>The English Patient</i>	2002 <i>Chicago</i>
<i>Unforgiven</i>	1997 <i>Titanic</i>	2003 <i>The Lord of the Rings: The Return of the King</i>
<i>Schindler's List</i>	1998 <i>Shakespeare in Love</i>	2004 <i>Million Dollar Baby</i>
<i>Forrest Gump</i>	1999 <i>American Beauty</i>	
	2000 <i>Gladiator</i>	

Nobel Prize Winners Since 1995

Physics

Martin Perl, Frederick Reines, U.S.
 David M. Lee, Douglas D. Osheroff,
 Robert C. Richardson, U.S.
 Steven Chu, William D. Phillips, U.S.;
 Claude Cohen-Tannoudji, Fr.
 Robert B. Laughlin, Horst L. Stormer,
 Daniel C. Tsui, U.S.
 Gerardus 't Hooft and Martinus J.G.
 Veltman, Netherlands
 Jack S. Kilby, U.S.; Zhores I. Alferov, Russ.
 Eric A. Cornell, Carl E. Wieman, U.S.;
 Wolfgang Ketterle, Ger.
 Riccardo Giacconi, Raymond Davis Jr. U.S.;
 Masatoshi Koshiba, Jap.
 Alexei A. Abrikosov, US.-Rus.; Vitaly I.
 Ginzburg, Rus.; Anthony J. Leggett,
 U.K.-US.
 David J. Gross, H. David Politzer, Frank
 Wilczek (USA)
 Roy Glauber, John Hall (both US), and
 Theodor Haensch (Germany)

Chemistry

Paul Crutzen, Dutch; Mario Molina,
 Mex.-U.S.
 Harold W. Kroto, Br.; Robert F. Curl
 Jr., Richard E. Smalley, U.S.
 Paul D. Boyer, U.S., & John E. Walker,
 Br.; Jens C. Skou, Dan.

1998 Walter Kohn, U.S.; John A. Pople, Br.
 1999 Ahmed H. Zewail, U.S.
 2000 Alan J. Heeger, U.S.; Alan G. MacDiarmid,
 NZ-US.; Hideki Shirakawa, Japan
 2001 K. Barry Sharpless, U.S.; William S.
 Knowles, U.S.; Ryoji Noyori, Japan
 2002 John B. Fenn, U.S., Kurt Wuthrich,
 Swiss, Koichi Tanaka, Jap.
 2003 Peter Agre, Roderick Mackinnon, U.S.
 2004 Aaron Ciechanover, Avram Herschko
 (both Israel), Irwin Rose (USA)
 2005 Yves Chauvin (France), Robert H.
 Grubbs, Richard H. Schrock (both U.S.)

Physiology or Medicine

1995 Edward B. Lewis, Eric F. Wieschaus,
 U.S.; Christiane Nüsslein-Volhard, Ger.
 1996 Peter C. Doherty, Austral.; Rolf M.
 Zinkernagel, Swiss
 1997 Stanley B. Prusiner, U.S.
 1998 Robert F. Furchgott, Louis J. Ignarro,
 Ferid Murad, U.S.
 1999 Gunter Blobel, U.S.
 2000 Arvid Carlsson, Swed.; Paul Greengard,
 U.S.; Eric R. Kandel, Aus.-U.S.
 2001 Leland H. Hartwell, U.S.; R. Timothy
 (Tim) Hunt, Sir Paul M. Nurse, Br.
 2002 Sydney Brenner, U.K.; H. Robert

- Howwitz, U.S.; John E. Sulston, U.K.
 2003 Paul C. Lauterbur, U.S.; Sir Peter Mansfield, U.K.
 2004 Richard Axel and Linda Buck (USA)
 2005 Barry.J.Marshall, Robin Warren (Austral.)

Literature

- 1995 Seamus Heaney, Ir.
 1996 Wislawa Szymborska, Pol.
 1997 Dario Fo, It.
 1998 Jose Saramago, Por.
 1999 Gunter Grass, Ger.
 2000 Gao Xingjian, Chin.
 2001 Sir V.S. Naipaul, Br.
 2002 Imre Kertesz, Hug.
 2003 John Maxwell Coetzee, S.Afr.
 2004 Elfriede Jelinek (Austria)
 2005 Harold Pinter (Br.)

Peace

- 1995 Joseph Rotblat, Pol.Br.; Pugwash Conference
 1996 Bishop Carlos Ximenes Belo, Jose Ramos-Horta, Timorese
 1997 Jody Williams, U.S.; International Campaign to Ban Landmines
 1998 John Hume, David Trimble, N.Ir.

- 1999 Doctors Without Borders (Medicins Sans Frontieres), Fr.
 2000 Kim Dae Jung, S.Kor.
 2001 UN; Kofi Annan, Ghana
 2002 Jimmy Carter, U.S.
 2003 Shirin Ebadi, Iran
 2004 Wangari Maathai (Kenya)
 2005 Un International Atomic Energy Agency and its D-G Mohamed El Baradei (Egypt)

Economics

- 1996 James A. Mirrlees, Br.; William Vickrey, Can.-U.S.
 1997 Robert C. Merton, U.S.; Myron S. Scholes, Can.-U.S.
 1998 Amartya Sen, Indian
 1999 Robert A. Mundell, Can.
 2000 James J. Heckman, Daniel L. McFadden, U.S.
 2001 George A. Akerlof, A. Michael Spence, Joseph E. Stiglitz, U.S.
 2002 Daniel Kahneman, Vernon L. Smith, U.S.
 2003 Robert F. Engle, U.S., Clive W.J. Granger, U.K.
 2004 Finn Kydland (Norway), Edward Prescott (USA)
 2005 Robert Aumann (Israeli-US) and Thomas C. Schelling (US)

Gyanpith Awards

Year	Winner	Language
1965	G. Sankara Kurup	Malayalam
1966	Tara Shankar Banerjee	Bengali
1967	Dr. K.V. Puttappa	Kannada
1967	Umashankar Joshi	Gujarati
1968	Sumitranand Pant	Hindi
1969	Firaq Gorakhpuri	Urdu
1970	Dr. Viswanatha Satyanarayana	Telugu

1971	Bishnu Dey	Bengali
1972	Dr. Ramdhari Singh Dinkar	Hindi
1973	Dattatreya Ramachandra Bharadwaj	Tamil
1973	Gopinath Mohanty	Odia
1974	Vishnu Saktharam Khanna	Punjabi
1975	P.V. Akhilandam	Malayalam
1976	Ashapurna Devi	Marathi

7 Dr. K. Shivarama Karanth Kannada	1991 Subhas Mukhopadhyay Bengali
8 S.H. Vatsyayan Hindi	1992 Naresh Mehta Hindi
9 Birendra Kumar Bhattacharya... Assamese	1993 Sitakant Mahapatra Oriya
10 S.K. Pottekkatt Malayalam	1994 U. R. Anantha Murthy Kannada
11 Amrita Pritam Punjabi	1995 M.T. Vasudevan Nair Malayalam
12 Mahadevi Verma Hindi	1996 Mahasweta Devi Bengali
13 Dr. Masti Venkatesh Iyengar Kannada	1997 Ali Sardar Jafri Urdu
14 Thakazhi Sivasankara Pillai Malayalam	1998 Girish Karnad Kannada
15 Pannalal Patel Gujarati	1999 Nirmal Verma Hindi
16 Satchidanand Rautroy Oriya	1999 Gurdial Singh Punjabi
17 V.V. Shirwadkar Marathi	2000 Indira Goswami Assamese
18 Dr. C. Narayana Reddy Telugu	2001 Rajendra Keshavlal Shah Gujarati
19 Qurratul-ain-Haider Urdu	2002 D. Jayakanthan Tamil
20 Vinayak Krishna Gokak Kannada	2003 Vinda Karandikar Marathi

Booker Prizes

19 P.H. Newby <i>Something To Answer For</i>	1989 Kazuo Ishiguro <i>The Remains Of The Day</i>
20 Bernice Rubens <i>The Elected Member</i>	1990 A.S. Byatt <i>Possession</i>
21 V.S. Naipaul <i>In A Free State</i>	1991 Ben Okri <i>The Famished Road</i>
22 John Berger <i>G</i>	1992* Michael Ondaatje <i>The English Patient</i>
23 J.G. Farrell <i>The Siege Of Krishnapur</i>	Barry Unsworth <i>Sacred Hunger</i>
24* Nadine Gordimer <i>The Conservationist</i>	1993 Roddy Doyle .. <i>Paddy Clarke Ha Ha Ha</i>
Stanley Middleton <i>Holiday</i>	1994 James Kelman <i>How Late It Was, How Late</i>
25 Ruth Praver Jhabwala <i>Heat And Dust</i>	1995 Pat Barker <i>The Ghost Road</i>
26 David Storey <i>Saville</i>	1996 Graham Swift <i>Last Orders</i>
27 Paul Scott <i>Staying On</i>	1997 Arundhati Roy <i>The God Of Small Things</i>
28 Iris Murdoch <i>The Sea, The Sea</i>	1998 Ian McEwan <i>Amsterdam</i>
29 Penelope Fitzgerald <i>Offshore</i>	1999 J.M. Coetzee <i>Disgrace</i>
30 William Golding <i>Rites Of Passage</i>	2000 Margaret Atwood <i>The Blind Assassin</i>
31 Salman Rushdie <i>Midnight's Children</i>	2001 Peter Carey ... <i>True History of the Kelly Gang</i>
32 Thomas Keneally <i>Schindler's Ark</i>	2002 Yann Martel <i>Life of Pi</i>
33 J.M. Coetzee <i>Life And Times Of Michael. K.</i>	2003 D.B. Pierre <i>Vernon God Little</i>
34 Anita Brookner <i>Hotel Du Lac</i>	2004 Alan Hollinghurst ... <i>The Line of Beauty</i>
35 Ker Hulme <i>The Bone People</i>	2005 John Banville <i>The Sea</i>
36 Kingsley Amis <i>The Old Devils</i>	
37 Penelope Lively <i>Moon Tiger</i>	
38 Peter Carey <i>Oscar And Lucinda</i>	

* Co-Winners

The Ramon Magsaysay Awardees From India

Year	Name or Company	Category			
1958	Vinoba Bhave	CL	1982	Arun Shourie	JLCCA
1959	Chintaman Deshmukh	GS	1984	Rasipuram Laxman	JLCCA
1961	Amitabha Chowdhury	JLCCA	1985	Murlidhar Amte	PS
1962	Mother Teresa	PIU	1989	Lakshmi Chand Jain	PS
1963	Dara Khurody	CL	1991	K.V. Subbanna	JLCCA
1963	Verghese Kurien	CL	1992	Ravi Shankar	JLCCA
1963	Tribhuvandas Patel	CL	1993	Banoo Jehangir Coyaji	PS
1964	Welthy Fisher	PIU	1994	Kiran Bedi	GS
1965	Jayaprakash Narayan	PS	1996	Pandurang Athavale	CL
1966	Kamaladevi Chattopadhyay	CL	1996	T.N. Seshan	GS
1967	Satyajit Ray	JLCCA	1997	Mahasweta Devi	JLCCA
1971	M.S. Swaminathan	CL	1997	Mahesh Chander Mehta	PS
1974	M.S. Subbulakshmi	PS	2000	Jockin Arputham	PIU
1975	Boobli George Verghese	JLCCA	2000	Aruna Roy	CL
1976	Henning Holck-Larsen	PIU	2001	Rajendra Singh	CL
1976	Sombhu Mitra	JLCCA	2002	Sandeep Pandey	EL
1977	Ela Ramesh Bhatt	CL	2002	James Michael Lyngdoh	GS
1979	Mabelle Arole	CL	2003	Shantha Sinha	CL
1979	Rajanikant Arole	CL	2004	Laxminarayan Ramdas	PIU
1981	Gour Kishore Ghosh	JLCCA	2005	V Shanta	PS
1981	Pramod Karan Sethi	CL	2006	Arvind Kejriwal	EL
1982	Manibhal Desai	PS	GS -Government Service; PS-Public Service; CL-Community Leadership; JLCCA-Journalism, Literature, and the Creative Communication Arts; PIU-Peace and International Understanding; EL-Emergent Leadership.		
1982	Chandi Prasad Bhatt	CL			

Schengen Visa

Travelling in Europe has been simplified with the introduction of the Schengen visa. This unified visa system offers many advantages to visitors to the Schengen area. With a Schengen visa, you may enter one country and travel freely throughout the Schengen zone. Internal border control have disappeared; there are no or few stops and checks. This means that internal air, road and train travel are handled as domestic trips.

The name "Schengen" originates from a small town in Luxembourg. In June 1985, seven European Union countries signed a treaty to end

internal border checkpoints and controls. More countries joined the treaty later. The 15 Schengen countries are : Austria, Belgium, Denmark, Finland, France, Germany, Iceland, Italy, Greece, Luxembourg, Netherlands, Norway, Portugal, Spain and Sweden. If you intend to visit only one Schengen country, you must apply for the visa at the Embassy or Consulate of that country. If you intend to visit several countries, you must apply for a visa at the Embassy or Consulate of the country which is your main destination. If you intend to visit several Schengen countries but do not have a main destination, you should apply for a visa at the Embassy or Consulate of the country which is your first point of entry.

2 Show 2007

V George Mathew

which floor of the UN building in New York is the Secretary General's office?
 in King Camp Gillette?
 expression 'lion's share' has its origin in the Greek author of fables
 Jamaican singer whose home in Jamaica is known as Tuff Gong International
 first woman recipient of Vyas Award
 person to whom a warrant is made
 best bowler in Test cricket to take a century in the first over
 school of Artillery is at (Mhow/ Meerut/Wellington/Dehradun)
 British newspaper that published satirical cartoon depictions of the Prophet Muhammad
 color of pistachio is (blue/greenish/ yellowish)
 George Cayley is known as the Father of Aeronautics
 'Cancelled' is a book written by a British author, half English Oxford graduate, whose name?
 Dargah is the samadhi of
 first Indian to have made his million dollars
 what is another word for 'Chaitra' day of Chaitra falls on (April 1/ May 1/ Sept.30 / Jan.1)
 League for USA, and for Russia.
 Pilot is M.P. from (Kannauj/ Lucknow/ Varanasi/ Meerut)
 India's fastest missile ship commissioned in Indian Navy in March 1997
 first recipient of the India Science

- Award 2004 given by Government of India
21. In Pharmacy, 'over-the-counter' means:
 - a. sold illegally b. sold with prescription c. sold legally without prescription d. sold illegally with prescription.
 22. The name of a large cannon used by Germans in the First World War: Big Ben / Big Bertha/Big Apple/ Big Bang
 23. East Asia is : the Near East / the Far East / the Middle East/ Asia Minor.
 24. The first Sherlock Holmes book
 25. The word 'cunning' is: a. an adverb b. a verb and an adjective c. a noun and a verb d. a noun and an adjective
 26. Which word means a 'chronic drunkard' sot/sop/sup/sow
 27. The film *Saathiya* is a remake of Mani Ratnam's
 28. Two of these countries have not signed the Kyoto climate treaty : India, France, USA, Australia
 29. The singer who earned £30,000 a day in 2005.
 30. The city in Haryana named as 'the millennium city'
 31. ANTRIX is the commercial arm of: FICCI/ NCAER/ISRO/RBI
 32. The three Indian universities that turn 150 in 2007
 33. Which of these is a retail giant: Google, Carrefour, Ivy League, IFAD?
 34. Average global temperature has increased by degree/degrees in the past century.
 35. Filmmaker Shaad Ali Sehgal's mother? She is a politician.

36. The motto of NCC
37. M.S. Dhoni's place of birth
38. The fairy tale character who was a manikin who could weave gold out of straw
39. The number of people committing suicide every year, according to WHO.
40. The world's biggest exporter
41. Dharmendra Yadav's record
42. How many Indian athletes participated in the Winter Olympics at Turin in 2006?
43. The 19th century King Ferdinand II's heavy bombardment of Sicilian cities gave him the name
44. The country whose name has only four letters but is a complete sentence, i.e. it has a subject and a predicate
45. The woman who received the world's first partial face transplant
46. 'Stock raising' is concerned with a. shares b. mutual funds c. fences d. cattle
47. The four American leaders whose heads are carved on the Rushmore mountain
48. An illustration facing the title page of a book
49. India's first public-private initiative is a \$100 m. toll bridge. Name it.
50. Where are these privately-owned ports : Gangavaram, Dhamra and Pipavav?
51. Mother of England's Queen Elizabeth I
52. Which of these words means 'vomiting': emersion/emesis/nucin/nemesis?
53. The dynasty founded by Osman I
54. The world's largest beverage-maker
55. How tall is the angel atop the Victoria Memorial in Kolkata?
56. The two distinct revolutions that constitute the Russian Revolution of 1917.
57. Zadie Smith's award-winning 'On Beauty' is a reworking of E.M. Forster's
58. In English folklore, Queen Mab is a fairy queen who controls people's
59. The capital of Luxembourg
60. French writer Colette's comedy about a girl reared to be a courtesan
61. Which sign of the zodiac do the mythological Castor and Pollux represent?
62. The two tennis players in 'the battle of the sexes' in 1973
63. Ngwee is a coin of Zimbabwe/Poland/New Zealand/Zambia
64. The proposed film city in Pondicherry is to be named after
65. India's services sector, which generates over 50 p.c. of the GDP, employs only p.c. of working Indians.
66. India's annual production of eggs is estimated at

Answers: 1. 38th floor ■ 2. The American who invented the safety razor ■ 3. Aesop ■ 4. Bob Marley ■ 5. Ms. Chitra Mudgal ■ 6. Warrantee ■ 7. Irfan Pathan ■ 8. Deolali ■ 9. Jyllands-Posten ■ 10. greenish ■ 11. Aviation ■ 12. Rana Dasgupta ■ 13. Gulzarilal Nanda ■ 14. Arjun Atwal ■ 15. wart ■ 16. March 22 ■ 17. brown bear ■ 18. Dausa ■ 19. INS Prahar ■ 20. Prof. C.N.R. Rao ■ 21. c ■ 22. Big Bertha ■ 23. the Far East ■ 24. A Study in Scarlet ■ 25. d ■ 26. sot ■ 27. Alai Payuthey ■ 28. USA, Australia ■ 29. Robbie Williams ■ 30. Gurgaon ■ 31. ISRO ■ 32. Bombay, Madras, Calcutta ■ 33. Carrefour ■ 34. one ■ 35. Subhashini Ali ■ 36. Unity and Discipline ■ 37. Ranchi ■ 38. Rumpelstiltskin ■ 39. one million ■ 40. the European Union ■ 41. Youngest member of the 14th Lok Sabha ■ 42. Four ■ 43. King of Bomba ■ 44. Iran ■ 45. Isabelle Dinoire ■ 46. d. cattle ■ 47. Washington, Jefferson, Lincoln and Theodore Roosevelt ■ 48. frontispiece ■ 49. Delhi-Noida Toll Bridge ■ 50. In A.P., Orissa and Gujarat respectively ■ 51. Anne Boleyn ■ 52. nemesis ■ 53. Ottoman ■ 54. Coca-Cola Company ■ 55. 4.9 metres ■ 56. February Revolution and October Revolution ■ 57. 'Howards End' ■ 58. dream ■ 59. Luxembourg ■ 60. Gigi ■ 61. Gemini ■ 62. Billie-Jean King and Bobby Riggs ■ 63. 2 ■ 64. Sivaji Ganeshan ■ 65. 27 ■ 66. 3,000 cr.

67. The adventurer who set a record by covering 42,467 km in 76 hours in 2006
68. The Nobel laureate who was born in Mumbai on Dec. 30, 1865
69. Which is the correctly spelt word? a. psychophant b. cychophant c. sycho-phant d. sichophant
70. An idioculous bird is born
71. What is a coracle? a. a crow/ a boat/ a disease/ a wise man.
72. Which word takes 's' to make the plural form: offspring/deer/furniture/piano?
73. In 'Pickwick Papers', who is the president of the Pickwick Club?
74. In colloquial English, 'You can say that again' means
75. The West Indian poet who wrote *Omeros*
76. The woman who was Prime Minister of Canada in 1993 and 1998
77. Saint Nicholas is patron saint of (Norway/Russia/Sweden/Austria).
78. US ambassador David Mulford was a before taking up the present job.
79. Which word is wrongly spelt? a. deception b. repetition c. extension d. intention
80. What is common to Harivansh Rai Bachchan, Vijay Tendulkar, Balamani Amma and Indra Parthasarathy?
81. The first Indian bank to get approval to start normal banking operation in China.
82. Africa's leading oil exporter
83. Give the next line: Little drops of water, Little grains of sand, Make the mighty ocean,
84. Norah Jones' debut album
85. A kibitzer (a. catches fish b. gives unwanted advice c. flies kites d. changes houses very often)
86. The famous anthropologist L.B.S Leakey was born in which country?
87. This name is used for something that is oversimplified and unrelated to reality:

Andorrans Vs Mozambique

In average life expectancy, Andorra is at the top with 83.5 years as African country Mozambique at the bottom with 31.3 years.

- a. David Copperfield b. Mickey M C. Donald Duck d. Cinderella
88. Which of these falls in the class 'j' and gems': Alexandrite / Cracow// Derby?
89. The word 'Rupaya' for currency first used in 1540 by
90. What is special about the book that the Booker Prize in 1972?
91. What is unique about the Booker I of 1983 and 1999?
92. Who won the best actor Oscar in for the film 'Scent of a Woman'?
93. Which word means 'a sequence of events': cartridge/ cyst/ casket/ ccade?
94. What anti-viral drug is technically known as oseltamivir?
95. George Lazenby, the Australian actor known for a. his Bollywood film book on India c. role as the Buddha role as James Bond.
96. The first woman Secretary General Amnesty International
97. Dan Brown was accused of plugging the plot of the best seller *The Da Vinci Code* from a non-fiction work called
98. The Deepa Mehta film that focuses the plight of a castigated widow: Varanasi
99. In Greek mythology, Cassiopeia is mother of
100. Who invented the antibiotic tetracycline and folic acid?
101. What is known as the World Court?
102. Felipe is the Crown Prince of which country?

13. Tology is a. obstetrics b. occult c. palmistry d. topography
14. The name of an animal used to denote a spinning machine that makes yarn from fibres
15. The governor of Madras after whom an American university is named
16. What did Dr. L.L. Zamenhof, a Polish philologist, devise in 1887?
17. What is known as Horn of Africa?
18. For which sport is Admirals Cup given?
19. Clothing and other accessories for a new-born baby. The word begins with 'I'
20. The year Mahatma Gandhi visited U.S.A.
1. 'USS Enterprise' was sent to the Bay of Bengal to browbeat India. The year?
2. The line identifying the writer of a newspaper article
3. The number of tax-payers in India
4. Surface area of the human skin
5. The two page income-tax return: Suvidha/Saral/Saphal/Sneha
6. 'Asom', the new name of Assam means
7. The Clint Eastwood-directed film about a female boxer
8. AWB Ltd. is which country's monopoly wheat marketing body?
9. After the completion of India's Five Year Plan, there was a Plan Holiday for three years
- a. second b. third c. fourth d. fifth
120. Who was the Prime Minister when President Jimmy Carter visited India?
121. Which word means 'a third person in the company of two lovers' (jockey/gooseberry/busybody/cameo)?
122. George Bush is the US President to visit India: 3rd, 9th, 5th, 6th
123. The actress who became an international star as Dorothy in *The Wizard of Oz*
124. A vehicle brought from abroad under Transfer of Residence, cannot be sold before of personal use by the importer (6 months/ 1 year/ 2 years / 3 years)
125. Capgemini is (a. an American beverage b. Europe's largest computer consultancy c. the capital of a channel island d. a satellite now in orbit)
126. The mahout in the Mysore maharaja's palace who acted in 'Jungle Book' and 'Thief of Baghdad'
127. February gets its name from a Latin word implying (atonement/ romance/dis-agreement/ brevity)
128. The Indian cricket team visited New Zealand for the first time in 1967 under the captaincy of

Answers: 67. Steve Fosset ■ 68. Rudyard Kipling ■ 69. c ■ 70. blind and helpless ■ 71. a boat ■ 72. Piano ■ 73. Samuel Pickwick ■ 74. I agree with you ■ 75. Derek Walcott ■ 76. Kim Campbell ■ 77. Russia ■ 78. banker ■ 79. b-correct; repetition ■ 80. Winners of Saraswati Samman ■ 81. State Bank of India ■ 82. Nigeria ■ 83. And the pleasant land ■ 84. "Come Away With Me" ■ 85. b ■ 86. Kenya ■ 87. b ■ 88. Alexandrite ■ 89. Sher Shah Suri ■ 90. Its title is 'G', written by John Berger ■ 91. The same author, J.M. Coetzee ■ 92. Al Pacino ■ 93. Cavalcade ■ 94. Tamiflu ■ 95. d ■ 96. Irene Khan ■ 97. "The Holy Blood and the Holy Grail" ■ 98. "Water" ■ 99. Andromeda ■ 100. Yellapragada Subba Rao ■ 101. International Court of Justice in the Hague ■ 102. Spain ■ 103. a ■ 104. mule ■ 105. Elihu Yale ■ 106. The artificial language Esperanto ■ 107. North East African countries of Ethiopia, Eritrea, Somalia and Djibouti ■ 108. Yachting ■ 109. layette ■ 110. He never visited that country ■ 111. 1971 ■ 112. byline ■ 113. 4.26 cr. ■ 114. 25 sq. feet ■ 115. saral ■ 116. uneven ■ 117. Million Dollar Baby ■ 118. Australia ■ 119. b ■ 120. Moraji Desai ■ 121. gooseberry ■ 122. 5th ■ 123. Judy Garland ■ 124. 2 years ■ 125. b ■ 126. Sabu Dastagir ■ 127. atonement ■ 128. Nawab of Pataudi

1. The first Indian to win a Pulitzer Prize
1. The first Indian to climb Mount Everest without oxygen
1. Delhi's Prithviraj Road is named after the city's last
1. The world's first ultra-capacitor powered electronic vehicle
1. The number of passengers carried by Indian Railways in a day.
1. The name of the Indo-French satellite programme
5. India is the producer of food in the world.
a. largest b. second largest c. third largest d. fourth largest
6. The chemical culicide is used to destroy
7. The earth sciences equivalent of the Nobel Prize
8. The first IIMs were set up in 1961. Where?
9. The age of our universe is in the neighbourhood of
10. A game of billiards: pool/pond/post/party
11. What did Samuel Colt invent?
12. The early edition of a morning newspaper
13. 'And God Created Woman', the film which made actress Brigitte Bardot a star, was directed by Roger Vadim, who was her
14. 'Civvies' means (civil service/ civilian clothes/civil law/civil engineering)
15. Mudguard is the old word for a car's
16. Sumo wrestling takes place between (two, three, four, six) wrestlers.
17. Sanford Fleming devised Standard Time by dividing the world into separate time zones.
18. Lollywood is the name given to the film industry of which country?
19. How many languages does Jackie Chan speak?
20. His 1978 film 'Grease' was a big success. Name this actor.

Pensioners' Rule

The Indian Railways has 15.4 lakh employees and 11.3 lakh pensioners. The latter will overtake the former by 2006-07.

151. The abbreviation for UN mission 'UNMEE' has names of two countries in it. Name them.
152. What percent of India's electricity is provided by nuclear programme?
153. The first person ever to win a Grammy, an Emmy, an Oscar and a Tony award
154. The first Asian to win best director Oscar
155. The Portuguese hamlet where apparitions of the Virgin Mary were reputedly seen in 1917
156. At what age did veteran director Sydney Lumet of the Netherlands make a film?
157. The American architect who coined the dictum 'Form Follows Function'
158. Lesbos, Samos and the Cyclades are a. Aegian Islands b. giants in Norse mythology c. towns in Syria d. messengers of Cupid
159. Haiti's Prime Minister Rene Preval is by training
a. an electrician b. an agronomist c. a dentist d. a nurse
160. The only man so far tried in a US courtroom in connection with the Sept. 11 strikes of 2001.
161. Kilovolt is one thousand volts. What about Kilowatt?
162. Pugwash Conferences got the name from the place
163. Macadamias are (a. road building techniques b. academies of architecture c. ornamental evergreen trees d. nuns)
164. The two time Oscar winning actress who was a waitress at the Hotel Somerset in Somerville, USA

65. The largest human organ is skin. Which is the second largest organ?
66. Union budget 2006-07 budgets for an expenditure of Rs. 563,911 cr. What per cent of the expected GDP would this be?
67. The major German industrial centre on the river Neckar
68. Where was the court of the legendary British King Arthur of 6th century A.D.?
69. Rolls Royce is owned by (Volkswagen/BMW/Ford/GM)
70. Nobel laureate Karl von Frisch conducted experiments and realised that honeybees communicate with one another using the language of
71. The first Indian metropolis to have solar-powered street lights
72. The three Wilson brothers who, along with others, formed the singing group 'The Beach Boys' in 1961.
73. Copper with tin is bronze, copper with zinc is brass. What is lead with tin?
74. Life expectancy at birth is 63 years in India. What is the figure for China?
75. The annual grant under MPLAD scheme is Rs. 2 crores per M.P. per constituency. How much was it when the scheme was announced in 1993?
76. The length of the small intestine is about 20 feet. What about the large intestine?
177. Into how many small incomplete cubes is the Rubik's Cube divided?
178. The largest tributary of the Amazon
179. The name of the mathematician who is responsible for 'Boolean algebra'
180. How many of the 106 persons winning Padma Awards in 2006 are foreigners?
181. The weight of brain for males is 1408 gram. What about females?
182. 5596°C is the boiling point of (tantalum, osmium, tungsten, rhenium)
183. Before Ambika Soni joined the Union Cabinet, there was only one woman in the Cabinet. Who?
184. Members of the Dinka tribe are known for their (marksmanship/height/swimming/long hair).
185. Where is the royal palace Hagia Sophia?
186. Jack Dempsey was nicknamed 'Manassa Mauler'. His profession?
187. The four languages added to the Eighth Schedule in 2004
188. The year the High Courts of Bombay, Calcutta and Madras were established
189. A Japanese-led initiative to promote study of artificial intelligence and robotics using football games.
190. Frankfurter is (a sausage/ a wine/a franking machine/ a wrestler)

Answers: 129. Gobind Behari Lal ■ 130. Phu Dorjee ■ 131. Hindu ruler ■ 132. 'COMS CV' ■ 133. 14 million ■ 134. Megha-Tropiques ■ 135. c ■ 136. mosquitoes ■ 137. Vetlesen Prize ■ 138. Calcutta and Ahmedabad ■ 139. 14 billion years ■ 140. pool ■ 141. a revolver ■ 142. bulldog edition ■ 143. husband ■ 144. civilian clothes ■ 145. fender ■ 146. two ■ 147. 24 ■ 148. Pakistan, industry based in Lahore ■ 149. eleven ■ 150. John Travolta ■ 151. Ethiopia and Eritrea ■ 152. three ■ 153. Barbara Streisand ■ 154. Ang Lee ■ 155. Father ■ 156. 13 years ■ 157. Louis Sullivan ■ 158. a ■ 159. b ■ 160. Zacarias Moussaoui ■ 161. 1000 watts ■ 162. Pugwash, Nova Scotia where the first meeting was held in 1957 ■ 163. c ■ 164. Meryl Streep ■ 165. Liver ■ 166. 14.5 ■ 167. Stuttgart ■ 168. At Camelot ■ 169. dance ■ 170. dance ■ 171. Kolkata ■ 172. Brian, Carl and Dennis ■ 173. Pewter ■ 174. 71 ■ 175. 20 crore ■ 176. about five feet ■ 177. 26; 178. River Madeira ■ 179. George Boole ■ 180. 181. 1263 gram ■ 182. rhenium ■ 183. Meira Kumar ■ 184. height ■ 185. 186. Boxer ■ 187. Bodo, Dogri, Maithili, Santhali ■ 188. 1862 ■ 189. Robo Cup ■ 190.

91. The Greek goddess of dawn, identified with Roman goddess Aurora
92. Dutchy Originals is a food company growing organic produce-based foods and donates the proceeds of sales to charity. Who owns it?
93. Total assets of LIC are around
94. The annual 1855-km dogsled race held in March in Alaska taking 9 to 14 days to complete
95. The H5N1 strain of avian flu was first identified where?
96. 'Bahia de Cochinos' is known to us as
97. The pipeline that takes Caspian Sea oil from Azerbaijan to Turkey via Georgia
98. World Kidney Day is observed on
99. The ancient Greek orator who was a stutterer with pebbles in his mouth to improve his speech
100. Soccer star Sandor Kocsis is from (Kuwait/Egypt/Brazil/Hungary)
101. The second longest river in Europe, that rises in the Black Forest, Germany
102. Venue of the 2010 Winter Olympic Games
103. Ghatolkacha is the son born to Bhima and
104. What is the informal word used by Americans for a sandwich having three slices of bread and two layers of filling
105. Bible: How many sons did Noah, who built the ark on God's instructions, have?
106. Kwame Nkrumah, the man who was the Prime Minister of Gold Coast was the first president of
107. American President Richard Nixon is the first to (a. apologise to the nation / b. be convicted of wrongdoing/c. visit the Soviet Union/ d. teach law)
108. Complete the saying: Cleanliness is next to
109. 'Farinaceous' means containing or resembling (star/stick/story/starch)
110. The first-ever President to visit the military-ruled Myanmar

Capital to Commercial Capital

It is estimated that about 40 per cent of air traffic in India is between Delhi and Mumbai.

211. What brought Texas lawyer Harry Whittington to news in Feb., 2006?
212. The daughter of a slain Prime Minister who was the youngest billionaire in *Forbes* annual list of 2006
213. The country with the highest suicide rate in the industrialised world
214. The city where the world's biggest fair is held in
215. The country that won most Olympic medals in 1896
216. Which word is wrongly spelt? a. fortieth b.eighth c.twelveth d.ninth.
217. The Tuli Tanti-owned company has Asia's largest
218. India's first home-made talkie release in 1931
219. Who wrote a column 'Youth Folio' in RSS mouthpiece 'Organiser'? (Manek Gandhi/Varun Gandhi/Pramod Mahajan/Swapandas Gupta)
220. The first Indian ever to bag 500 Test wickets
221. Canadian billionaire Kenneth Thomson is a (jeweller/publisher/miner/farmer).
222. How many Tests did Muttiah Muralitharan take to reach the 500 Test wicket mark?
223. Futon is a mattress for sleeping on (Chinese/Japanese/Moroccan/Turkish)
224. Which of these is a West Bank town Amman/Beirut/Bethlehem/Gaza?
225. Ibsen's *Et Dukkehjem* of 1879 is a renowned social play, known in English as
226. Length of the Iran-India pipeline
227. Which of these is a capital city (Sydney/Berne/Geneva/Montreal)?

228. Japanese poem haiku is the smallest poetry form in all the world. What does the word haiku mean?
229. Pusan is a seaport in
230. The first name of Lord Clive, who is known as Clive of India
231. Which place is wrongly spelt?
a. Liechtenstein b. Morrocco c. Lithuania d. Holland
232. The Muslim festival occurring on the first day after Ramadan
233. What did Ingvar Kamprad of Sweden found?
234. A person who lures away others to follow him is a 'pied piper'. This expression has its origin in the German legend of the Pied Piper of
235. Who was born on Dec. 22, 1887 a: Srinivasa Ramanujan/b. Job Charnock/c. Bhagat Singh/d. Vallabhbhai Patel?
236. Greek mythology: The father of Prometheus
237. The four bowlers who took 500 Test wickets before Anil Kumble
238. Who laid down his life fasting for a separate Andhra state in 1952?
239. What is 'moonlighting'?
240. Add two more cities to this chronological list of Olympic venues: Montreal, Moscow, Los Angeles, Seoul
241. In printing, diesis is the reference mark
242. The total number of billionaires in the world, according to Forbes 2006 list.
243. Which means 'a narrow escape': closed door/ close call/ clockwork/closed chain?
244. The internationally renowned business school INSEAD is in which country?
245. The five communities declared as minority communities in 1993
246. According to 2001 census, Scheduled Tribes account for per cent of India's population.
247. The subsidy on a post card is
248. The per cent of passengers traffic carried by Indian roads
249. The highways make up.... per cent of India's road network by length
250. The largest US bank
251. The father of the current prime minister of an Indian Ocean island nation was once a member of the Indian National Congress. Name the person.
252. Which of these is the capital of a country: Principe/Malta/Nauru/Apia?
253. The overseas arm of Oil and Natural Gas Corporation, ONGC

Answers: 191. Eos ■ 192. Prince Charles of Britain ■ 193. Rs. 4 lakh crore ■ 194. Iditarod, called The Last Great Race on Earth ■ 195. China ■ 196. Bay of Pigs ■ 197. Baku-Tbilisi-Ceyhan, BTC ■ 198. Second Thursday of March ■ 199. Demosthenes ■ 200. Hungary ■ 201. River Danube ■ 202. Vancouver ■ 203. Hidimbi ■ 204. double-decker ■ 205. Three ■ 206. Ghana ■ 207. c. visit the Soviet Union ■ 208. godliness ■ 209. starch ■ 210. A.P.J. Abdul Kalam ■ 211. Vice President Dick Cheney accidentally shot him while hunting gnu ■ 212. Hind Hariri, d/o. Lebanese Prime Minister Rafiq Hariri ■ 213. Japan -25.3 per 100,000 persons ■ 214. Hanover ■ 215. Greece ■ 216. c-correct: twelfth ■ 217. wind farm ■ 218. Alam Ara ■ 219. Varun Gandhi ■ 220. Anil Kumble ■ 221. publisher ■ 222. 87 ■ 223. Japanese ■ 224. Bethlehem ■ 225. A Doll's House ■ 226. 2100km. ■ 227. Berne ■ 228. the beginning ■ 229. Korea ■ 230. Robert ■ 231. b. correct : Morocco ■ 232. Id-al-Fitar ■ 233. Ikea ■ 234. Hamelin ■ 235. Srinivasa Ramanujan ■ 236. Iapetus ■ 237. Muttiah Muralitharan, Shane Warne, Glenn McGrath, Courtney Walsh ■ 238. Sriramalu Potti ■ 239. Earnings generated through work outside the formal line of duty ■ 240. Barcelona, Atlanta ■ 241. double dagger ■ 242. 793 ■ 243. close call ■ 244. France ■ 245. Muslims, Christians, Sikhs, Buddhists & Parsis ■ 246. 8.2 ■ 247. Rs. 6.1 ■ 248. 85 ■ 249. two ■ 250. Citigroup Inc. ■ 251. Sir Seewogar Ramgoolam of Mauritius ■ 252. Apia ■ 253. OVL, ON

254. Saint Gobain is a French (glass-maker/perfume/tourist spot/saint)
255. How far is Sriperumbudur, where Rajiv Gandhi was assassinated, from Chennai?
256. A journalist who was Indian High Commissioner in London in 1990
257. Portia S. Miller is the first woman Prime Minister of
258. How many Indian students are there in Oxford University now?
259. Which statement is true? a. Columbus was born in Geneva b. Columbus is a state capital in USA c. Colombia is a state in the US d. Columbus is a river in USA and Canada
260. When A.B. Vajpayee addressed the U.N. General Assembly in Hindi in 1977, he was a. an ambassador b. the Prime Minister c. the External Affairs Minister d. the permanent representative to the UN
261. The tallest American President
262. The only American President with a Ph.D.
263. Mercedes sedans are assembled in which Maharashtra town?
264. U 21 Global is (a. the Holland-based steel manufacturer b. a global online education major c. a rocket d. a Canberra-based Australian university)
265. The Nehru Memorial Museum is at Teen Murti House in: a. Allahabad b. Srinagar c. New Delhi d. Lucknow
266. The Nobel laureate who was an engineer a. Dario Fo b. V.S. Naipaul c. C.V. Raman d. Yasser Arafat
267. 'Sinistrodextral' is going from a. left to right b. right to left c. centre to right d. centre to left
268. (a. Beijing b. Copenhagen c. Tokyo d. Monrovia) was once known as Yedo.
269. The judicial capital of South Africa
270. The first Communist Head of State to visit Britain
271. The Mississippi county which was the setting for many of William Faulkner's works

Busy Indeed

About 9 million passengers are carried every day by Russia's Moscow Metro, the world's busiest metropolitan railway system.

272. What makes peppers hot?
273. The number of Indian cities with a population of one million or more
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275. Which word is wrongly spelt? a. vacuum b. separate c. embarrass d. immigrant
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283. How is Charlottenburg, a district in Germany, related to Olympics?
284. India accounts for..... p.c. of the world surface area
285. What is common to these US Presidents: John Adams, Thomas Jefferson, James Monroe?
286. 'Happy families are all alike; every unhappy family is unhappy in its own way'. Whose words?
287. The world population on Feb. 26, 2006, according to the World Population Clock.
288. The Collegiate Church of St. Peter is the official name of
289. It is 'Buvos Kocka' in Hungary. Some-

- times it was referred to as Hungarian Horror. The world knows it by the name
290. A nautical mile is equal to how many km?
291. Pecola is the main character of Toni Morrison's novel
292. Which of these words can mean 'ready and willing': sport/game/open/done?
293. Joseph Grimaldi is : a. a famous architect b. an Italian statesman c. associated with the Suez Canal d. a famous clown
294. Converting demat shares into physical form is called
295. Zinc in the human body, in grams
296. The three Tagores who were artists
297. Omega - 3 fats are believed to help cut the risk of cancer and heart disease. The two fishes in which these fats are found
298. Of the total household savings in India, the share of savings in shares and debentures
299. The city founded in 1827 as Bytown on the Ottawa river
300. A poncho is (a. a Japanese sport b. a piece of clothing c. a peasant d. a bear with white fur)
301. Landlubber is a person (a. who deals in real estate b. who is unfamiliar with the sea c. who encroaches upon other's land d. who manages an estate)
302. Who declares the Olympic Games open?
303. Verse 40 of the 'Kuruntokai' is where Vikram Chandra got the title for his book
304. The expression 'high and low' means a. arrogant b. unsteady c. everywhere d. helpless
305. Rank of army officer above brigadier
306. A lens worn to improve sight in one eye
307. The name used to refer to Oxford and Cambridge universities
308. Luxmeter is an instrument for measuring
309. Who acts as Cyrus in the English film 'Being Cyrus' from Bollywood?
310. A Cardinal of the Roman Catholic Church can vote in a conclave if he is under what age?
311. The world's richest prize for a piece of non-fiction
312. The number of Central Government employees, excluding the armed forces, is expected to be lakh by March, 2007.
313. A study headed by Richard Lynn in 2006 found Germans to be the most intelligent people in Europe. Their IQ?
314. Eclipse Award honours the (Elephant/Peacock/Horse/Flag) of the Year.
315. A person of mixed racial descent is called a

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116. The harmattan (dry wind) that blows from the Sahara across West Africa is called 'The Doctor' in humid lands along the Guinea because
117. Rene Descartes believed 'Cogito ergo sum'. This means
118. The number of tigers in India estimated to be in the wild
119. The Muslims calendar reckons time from July 16, A.D.
120. 'Nataion' means (a. a naturalised citizen b. a system of figures and symbols c. strong nationalistic feeling d. swimming)
121. The play with which Julia Roberts made her Broadway debut in March '06
122. The operation under which Indian paratroopers were sent to Maldives in 1988 to thwart a coup attempt there.
123. 'The Orange City of India'
124. (Italian/German/Australian/Belgian) researchers were the first to clone a horse in 2003.
125. India's first high-budget animation movie
126. The per cent of India's pregnant women found to be HIV positive in 2006
127. The first woman to reach the rank of Air Marshal in IAF
128. Which city's name precedes 'cigar' to denote a high quality product: Antwerp/ Oklahoma/ Beijing/ Havana
129. Pascal Lamy is Director-General of
130. John Hinkley Jr. said he attempted to assassinate President Ronald Reagan to impress which actress?
131. Sen. Prince Johnson is the leader of a breakaway rebel faction that hacked the ears of Samuel Doe, President of
132. Gudi Padwa is a festival that marks the beginning of the new year.
133. The part of the telephone handset held next to the ear (earplug/ earphone/ ear-piece/ receiver)
134. A person with both A and B antigens is

Two Bills

Two American Bills were among the top earners in 2005. Bill Gates made \$50.1 b. from his software business and Bill Clinton, former President, made \$6 m. during the year as speaker.

- designated as which blood group: O / A+ / B+ / AB?
335. The highest peak of the Alps, Mont Blanc is in which country?
336. Whose single was 'I Should Be So Lucky' (1988)?
337. A famous book fair is named after this city: Budapest / Asmara/ Leipzig/ Kochin
338. 'CRY' used to be Child Relief and You. Now it is
339. Whom did Pope Benedict XVI succeed?
340. Chhatrapathi Shivaji Museum was formerly known as
341. George Robertson is
a. Secretary General of Commonwealth b. Chief of NASA c. Governor of Hong Kong d. Secretary-General, NATO
342. The number of countries where land mines is a problem
343. World Asthma Day is observed on the first of May.
344. The UNCHR has been replaced by
345. The Sea known as Lake Kinneret to Israelis?
346. The largest single shareholder in Arcelor, the steel giant.
347. The company created in London in 2005 to provide safe transport driven by women for women
348. Dada, the western artistic movement of early 20th century, emphasised: rationality/ irrationality/ materialism/ vegetarianism
349. The country that approved a three-year cull of 975,000 seals in 2003, inviting the wrath of animal rights groups
350. Swatch Group is the world's biggest

351. Who is known as the UN's first economist?
352. The Ernest Hemingway book which tells the tale of a failed writer dying of gangrene in the shadow of an African mountain.
353. The controversial Arab television network founded in Doha 11 years ago
354. The word for noise and chaos: pandemic/harmonium/pandemonium/pantomime
355. A breed of dogs, widely used as guard dogs, developed by a German dog-breeder.
356. Albert II is King of
357. The predecessor to State Bank of India.
358. Zero hour is known as
359. 'Older than history, older than tradition, older even than legend.' Who described Varanasi thus?
360. The only food that does not spoil
361. The third in line to the British throne
362. A gaggle is a flock of
363. The country where the former ruler of Ethiopia Mengistu Haile Mariam lives as a guest of the Government.
364. How many hours is Indian Standard Time ahead of GMT?
365. The month Asadha in Saka year is followed by

366. ...erly term.
367. Dadabhai Nauroji
368. What percentage of the world's population is produced by O.P.
369. The Governor of ... was a Governor of ...
370. Homi J. Bhabha is the father of ...
371. The three Bronte sisters
372. The European UN Secretary General who later became President of his country
373. Sci-fi writer Stanislaw's work that was twice made into a film
374. Whose palace is at Mcleodganj?
375. Zambia was originally known as
376. In which Indian State did the Catholic Church give permission to girls to perform altar duties?
377. The tropical plant with large, bell-shaped flowers, named after the German botanist B.P. Gloxin
378. The Harvard historian who wrote 'A Hundred Horizons' is the grandnephew of
379. The screenplay that topped Writers Guild of America's list of 101 Greatest Screenplays in 2006

Answers: 317. I think, therefore I am ■ 318. Between 3000 and 3500 ■ 319. 622 ■ 320. d ■ 321. Three Days of Rain ■ 322. Operation Cactus ■ 323. Nagpur ■ 324. Italian ■ 325. Hanuman ■ 326. one ■ 327. Padma Bandopadhyay ■ 328. Havana ■ 329. WTO ■ 330. Jodie Foster ■ 331. Liberia ■ 332. Marathi ■ 333. earpiece ■ 334. AB ■ 335. on the borders of France, Italy, and Switzerland ■ 336. Kylie Minogue ■ 337. Leipzig ■ 338. Child Rights and You ■ 339. Pope John Paul II ■ 340. Prince of Wales Museum ■ 341. d ■ 342. 82 ■ 343. Tuesday ■ 344. UN Human Rights Council ■ 345. Sea of Galilee ■ 346. Luxembourg ■ 347. Pink Ladies Cabs ■ 348. irrationality ■ 349. Canada ■ 350. watchmaker ■ 351. David Owen ■ 352. The Snows of Kilimanjaro ■ 353. Al-Jazeera ■ 354. pandemonium ■ 355. Doberman pinscher ■ 356. Belgium ■ 357. The Imperial Bank of India ■ 358. H-hour ■ 359. Mark Twain ■ 360. Honey ■ 361. Prince Harry ■ 362. geese ■ 363. Zimbabwe ■ 364. 5.5 hours ■ 365. Sravana ■ 366. Indira Gandhi ■ 367. Swaraj ■ 368. 40 ■ 369. Sarojini Naidu ■ 370. father ■ 371. Charlotte, Emily and Anne ■ 372. Kurt Waldheim of Austria ■ 373. The English Patient ■ 374. Dalai Lama's ■ 375. Northern Rhodesia ■ 376. Kerala ■ 377. gloxinia ■ 378. Chandra Bose ■ 379. Casablanca

harmattan as Albert Einstein when he
the international fame?

number of vacant posts in Indian
universities in April as revealed by UGC
jects' blood is (red/blue/yellow/black)
ce may be cured by like. In which
em of medicine is this principle fol-

ed?
American writer who created the
character Ramona Quimby
io among these is an Art of Living
her: Leander Paes / Rhea Pillai/ Steffi
ff/ Rajinikanth.

s is a major port of Spain (Bilbao/
sterdam / Bikini/Stuttgart)
ia's first fully air-conditioned train for
poor

necklace of diamonds or other pre-
s stones: rivulet/ riviere / riviera/ rivet
bot' is a word coined by Czech writer
lira Vikas Patras, if lost, (can / can't)
replaced.

a number of employees in Wal-Mart
res, in 2005.

e company with a market value of
out \$370,000 m. in Mar. 2006: Coca
la/Pfizer / Microsoft/ Exxon Mobil.
e richest Asian in Britain (worth £14.8
ion) is Lakshmi Mittal. The second
nest?

orcus Pontes is which country's first
onaut?

e world's largest matrimonial service
adi.com was launched in 1997 by
elope Cruz is an actress from
ak House in England was the one-
e house of which celebrity?

o set the new world 5 km road rac-
record of 14 min. 4.6 sec. in April
06?

ector Shekhar Kapur's wife is the ac-
singer

hishasur' the painting, was sold at
6.9 cr. at a Christies auction. Name
artist

An Unbeaten Record

Boris Yeltsin, the people's deputy can-
didate for Moscow, (later President of
Russia) received 5,118,745 votes out
of the 5,722,937 cast in 1989.

401. Where did L.K. Advani's 1990 Ram Rath Yatra begin?
402. The Roman equivalent of Greek God Dionysus
403. The principal languages in Dadra & Nagar Haveli
404. The languages added to the 8th Schedule by the Amendment of the Constitution in 1992
405. Princess Aiko's parents
406. The Three Gorges Dam in China is designed to have a length of
407. Yanam, part of Pondicherry, is in Kerala/ Tamil Nadu/ Andhra Pradesh / Karnataka.
408. Turkish Republic of Northern Cyprus is recognised only by Greece / UK/ Turkey/ Austria.
409. Expand 'N' in the name N. Gopalaswami, the CEC
410. Of the 1192 islands, only 200 are inhabited. We are talking about (Philippines/Japan/Malaysia/Maldives).
411. A disaster of April 26, 1986 centred around (Tokyo/Djibouti/Dubai/Chernobyl)
412. The Indian Prime Minister inaugurated the Hannover on 24/4/20006 (a. Meet b. Mess c. Fest d. Messe)
413. The number of words in English as on 21-3-2006, according to Global Language Monitor
414. The telecom arm of Indian Railways
415. Of which company is John Shaw the Vice Chairman?
416. St. Andrews University's celebrity alumnus from the British royal family

417. The angel who tries to overthrow God, in John Milton's *Paradise Lost*
418. The Indian sportsman who won the David Dixon Award for being the 'Best Athlete' at the Commonwealth Games, 2006
419. The names of Henry Luce and Briton Hadden, the young Yale graduates were associated with the beginning of what in 1923?
420. The heavy metal band from Australia: AD/BC, CC/DD, A/B/AB, AC/DC.
421. The three great writers who died on April 23, 1616.
422. Who was arrested in 1955 for refusing to leave his/her bus seat to a white passenger: Martin Luther King/ Rosa Parks/ Desmond Tutu/ Nelson Mandela?
423. Britain's Queen Elizabeth II turned 80 on Apr. 21, 2006. Who turned 80 on Aug. 13? Angela Merkel / Kofi Annan / Fidel Castro/ George W. Bush?
424. BSE Sensex reached 12,000 on April 20, 2006. What was it on July 25, 1990? 1000/2000/5000/10000?
425. The world's biggest bullion producer
426. LVMH Moët Hennessy Louis Vuitton is the world's biggest
427. Chinese currency yuan is also known as
428. The Indian-born scientist who has been awarded the Stockholm Water Prize
429. India's first soap opera
430. Australia's 'Smart State'
431. John Matthew Matthen is (a. film director/ b. a governor/c. an award-winning farmer/ d. the producer of the first 3-D film)
432. Saint George is England's patron saint. What about Saint Andrew?
433. United Parcel is the world's biggest
434. As a teenager, Arundhati Roy made a living selling
435. Monash University is in (Canada/ Australia / UK/ USA)
436. In April 2006, which country had the most US dollar reserves
437. The world's biggest cruise ship. It has the first on-board surfing pool.
438. The film premiered in Lahore in April, 06, breaking five decade-long ban on screening of Indian films in Pakistan.
439. The famous model of Ford car introduced in 1908
440. According to scientists, at what rate is the Dead Sea shrinking?
441. The first woman to fly at twice the speed of sound.

Answers: 380.26 years ■ 381.120,000 including 50,000 teaching posts ■ 382.yellow ■ 383.Homeopathy ■ 384.Beverly Cleary ■ 385.Rhea Pillai ■ 386.Bilbao ■ 387.Garib Rath ■ 388.riviere ■ 389.Karel Capek ■ 390.can't ■ 391.1,800,000 ■ 392.Exxon Mobil ■ 393. Sri Chand Hinduja and Gopi Chand Hinduja of the Hinduja Group ■ 394. Brazil ■ 395. Anupam Mittal ■ 396.Spain ■ 397.Charles Dickens ■ 398. Ethiopia's Meseret Defar ■ 399.Suchitra Krishnamoorthi ■ 400. Tyeb Mehta ■ 401. Somnath ■ 402.Bacchus ■ 403.Gujarati & Hindi ■ 404.Konkani, Manipuri, Nepali ■ 405. Japan's Crown Prince Naruhito and Crown Princess Masako ■ 406. 2309 metres ■ 407.A.P. ■ 408.Turkey ■ 409.Needamangalam ■ 410. Maldives ■ 411.Chemobyl ■ 412.d ■ 413.988,968 ■ 414.Railtel ■ 415. Biocon ■ 416. Prince William ■ 417.Satan ■ 418. Samresh Jung ■ 419.The Time magazine ■ 420. AC/DC; 421.Miguel de Cervantes, William Shakespeare and Inca Garcilaso de la Vega ■ 422.Rosa Parks ■ 423.Fidel Castro ■ 424. 1000 ■ 425.South Africa ■ 427. the renminbi ■ 428. Asit Biswas ■ 429.Hum Log ■ 430.Queensland ■ 431. a ■ 432.Scotland's ■ 433.package shipping company ■ 434.empty beer bottles ■ 435.Australia ■ 436.China, \$875b. ■ 437.Freedom of the Seas ■ 438.K. Asif's Much ■ 439.Model-T ■ 440.By over a metre a year ■ 441.Jacqueline Cochran

2. The film legend who was originally Singanalluru Puttaswamayya Muthuraj
3. Traditionally, a blind-folded woman balancing the scales depicts
4. How long was the reign of Louis XIV of France?
5. The First Folio is a collection of how many Shakespeare plays?
6. Reservation in education began in 1902 in the princely State
7. Love apple used to be the name for
8. M16 is Britain's
9. An octogenarian is a person between
10. 'Tithe' is (1/5, 1/10, 1/20, 1/50)
11. 'Physiatrics' is the branch of medicine that deals with
12. The author of 'The Idea of a University' is a Thomas Carlyle / b. Cardinal Newman / c. Dr. S. Radhakrishnan / d. Francis Bacon
13. Which fundamental right contained in the Indian Constitution was replaced in 1978?
14. Where is the Khangchendzonga National Park situated?
15. The percentage of vote A.P.J. Abdul Kalam got when was elected President
16. 'The only thing we have to fear is fear itself'. Whose words?
17. The largest lake of South America. It is on the border of Peru and Bolivia
18. The world's longest LPG pipeline from Jamnagar to Loni was commissioned in Dec. 2000. Its length?
19. Who created the character Watson?
20. Bobby Moore, the footballer who won a record 108 caps, played for whom from 1958 to '74?
21. James Bond's vehicle in 'Casino royale': a. spaceship/ b. a bullock cart/ c. a bulldozer/ d. an electric car
22. The war between the Titans and the Olympian gods in Greek mythology
23. The role of Inspector Clouseau played by Peter Sellers in 'Pink Panther' is now played by
24. The two peaks Gibraltar and Jebel Musa on the sides of the Strait Gibraltar are called
25. Who appoints ministers in a State cabinet - Governor or Chief Minister?
26. Who preceded Jagjivan Ram as Congress President? He was later made 'Bharat Ratna'.
27. The King of Egypt overthrown by Gamal Abdal Nasser
28. The height of Freedom Tower being built at the site of the World Trade Centre. It is symbolic of America's Independence.

Answers: 442. Croatia ■ 443. Gravity ■ 444. Balkis ■ 445. July monarchy or the bourgeois monarchy ■ 446. Time ■ 447. Ireland ■ 448. Nellore ■ 449. Queen Elizabeth II ■ 450. Aamir Khan ■ 451. d ■ 452. Shahid Minar ■ 453. £2500 ■ 454. Nobel Prize in Economic Science ■ 455. Dr. Seuss ■ 456. Thailand ■ 457. Hotels or hotel chains ■ 458. James Patterson ■ 459. Edgar Allan Poe ■ 460. Vijayanta ■ 461. John Dryden ■ 462. Georges Simenon ■ 463. Androcles ■ 464. Hans Christian Andersen ■ 465. b ■ 466. Shipyards ■ 467. Jodhpur ■ 468. Navagam Project ■ 469. b ■ 470. Sarus ■ 471. Ronaldinho ■ 472. the Danube ■ 473. first face transplant patient ■ 474. Taiwan ■ 475. Wilkie Collins ■ 476. Kaavya Viswanathan ■ 477. Hyundai Heavy Industries ■ 478. time ■ 479. methuselah ■ 480. Ajeet Bajaj ■ 481. funambulist ■ 482. Rajkumar of Karnataka ■ 483. justice ■ 484. 72 years ■ 485. 18 ■ 486. Kolhapur ■ 487. tomato ■ 488. spy agency ■ 489. 80 and 89 years; 490. $\frac{1}{10}$ ■ 491. physical therapy ■ 492. Cardinal Newman ■ 493. Right to property ■ 494. Gangtok, Sikkim ■ 495. 89.58 ■ 496. F.D. Roosevelt ■ 497. Titicaca ■ 498. 1240km ■ 499. Arthur Canon Doyle ■ 500. West Hans United ■ 501. a bulldozer ■ 502. Titanomachy ■ 503. Steve Martin ■ 504. Pillars of Hercules ■ 505. Gove ■ 506. C. Subramaniam ■ 507. Farouk I ■ 508. 1776 feet

Singha Darbar is the seat of which country's government?

On Apr. 28, 2006 Saddam Hussein spent his (2nd/3rd/4th/5th) birthday in a row behind bars

The 65th member of the Asian Development Bank.

The name of the convict in 'Les Misérables'

Ektasthal is the samadhi of

The Chief Minister who bagged 94% of the votes polled in a bye-election in Apr. '06

Around 50,000 illegal immigrants enter U.S.A each year. Most of them are from The British writer and military strategist known as Lawrence of Arabia

How long did the Kon-Tiki take to sail from Lima to Tahiti?

The film in which we see the lawyer Alticus Finch?

Who won Emmy Awards for TV serial 'All in the Family'?

What is Indian Paintbrush- a brush / a toothbrush/a jungle/ a plant?

Who among these was Congress President: a. C.F. Andrews b. Henry Cotton c. Stafford Cripps d. Lord Louis Mountbatten

Meher Baba observed silence for the last how many years of his life?

The Charles Dickens work in which the character Scrooge is seen

What is GINA? Global Initiative for

The first farmer to take the reins of India's largest food business, GCMF

S.Y. Quraishi is one of the Election Commissioners. True or False?

G.P. Koirala was sworn in Prime Minister of Nepal in April, 2006 for the (second/third/fourth/fifth) time.

Where is the 91¹/₄-mile-long St. Gotthard tunnel?

Which traveller did Rustichello help to write the tale of the travels?

Pepsi-Coke World

The combined annual turnover of PepsiCo and Coca-Cola in India is Rs.7,000 crore.

530. Luzon is the largest island of which country?

531. The fictional village in Gabriel Garcia Marquez's 'One Hundred Years of Solitude'

532. The IRA man who died in the Maze Prison in North Ireland in 1981 after a 65-day hunger strike

533. Who wrote the Perry Mason novels?

534. Who became King of UK following the abdication of his brother Edward VIII?

535. Sahitya Akademi is referred to as in English.

536. The full name of the Alex Hailey book Roots

537. Who said: 'A stand can be made against invasion by an army; no stand can be made against invasion by an idea'?

538. IVECO is the commercial vehicle arm of

539. Which American State is known as 'the Natural State'?

540. The Tutsis of Rwanda are (a. extremely tall b. Very short c. very fat d. short and thin)

541. What is known as the Isle of Cloves?

542. Tonga (a. has a king b. is a democracy c. is a part of the Congo d. is not independent)

543. Bermuda is (a. a sovereign state b. is in the Pacific Ocean c. is a British dependency d. is part of Northern Ireland)

544. Which statement about Wales is not true?

a. Its population is 9 m. b. Its capital is Cardiff c. It has a 60-seat Assembly d. It is in northern Great Britain

545. The non-permanent members of UN

- Security Council are elected for (2 year/ 3 year /4 year/ 5-year) terms.
546. There have been no UN Secretary Generals from (the Netherlands/Austria/Norway/Sweden)
547. Which country joined in the UN in 1945: India/ Italy/Afghanistan/Eritrea?
548. The work of which UN organ was suspended in 1994?
549. The population of Russia is expected to (a. rise by 4%, b. drop by 20%, c. rise by 25% d. drop by 33%) by 2050.
550. The UN General Assembly voted to admit the Beijing government in the year
551. With which region do we associate the Polisario front: (a. Myanmar b. Southern Spain c. western Ethiopia d. Western Sahara)
552. King Zog I ruled this country from 1925 to '39
553. The Tripitaka is the sacred text of which religion?
554. The Pope's temporal title
555. The UN has a post office originating its own stamps. True or False?
556. The headquarters of the OPEC are in
557. Which organisation has its headquarters in Georgetown, Guyana?
558. Nisan, Iyar and Sivan are (a. cars b. cities in Japan c. months of the Jewish calendar d. gods worshipped in ancient Babylon)
559. DCA is the code for which airport?
560. JAT is the airline of which country?
561. 'The Scream' was stolen in Aug. 2004. Whose masterpiece is it?
562. What is common to these athletes: Constantina Dita-Tomescu, Paula Radcliffe and Catherine Ndereba?
563. The Chaco War of 1932-35 was fought between
564. Eminent physicist Stephen Hawking is disabled by ALS. What is ALS?
565. The American form of pocket billiards is known as
566. The element Fermium is named after
567. Which tiles in scrabble have the highest value?
568. The American First Lady Laura Bush has a Master's degree in
569. Who was French Open Singles champion from 1978 to 1981?
570. The company whose chemical plant in Bhopal had a disastrous gas leak in 1984.
571. Hungary is (a. a member of both EU and NATO, b. a member of EU but not NATO c. a member of NATO d. a member neither in EU nor in NATO)

Answers: 509. Nepal ■ 510. 3rd ■ 511. Brunei ■ 512. Jean Valjean ■ 513. Zail Singh ■ 514. Ghulam Nabi Azad ■ 515. Mexico ■ 516. Thomas Edward Lawrence ■ 517. 101 days ■ 518. *To Kill a Mockingbird* ■ 519. Norman Lear ■ 520. a plant ■ 521. b ■ 522. 44 ■ 523. A Christmas Carol ■ 524. Asthma ■ 525. Prathibhai Bhatol ■ 526. True ■ 527. fourth ■ 528. Switzerland ■ 529. Marco Polo ■ 530. Philippines ■ 531. Macondo ■ 532. Bobby Sands ■ 533. Erle Stanley Gardner ■ 534. George VI ■ 535. Indian National Academy of Letters ■ 536. *Roots: The Saga of an American Family* ■ 537. Victor Hugo ■ 538. FIAT ■ 539. Arkansas ■ 540. a ■ 541. Zanzibar ■ 542. a ■ 543. c ■ 544. d ■ 545. 2-year ■ 546. the Netherlands ■ 547. India ■ 548. Trusteeship Council ■ 549. b ■ 550. 1971 ■ 551. d ■ 552. Albania ■ 553. Buddhism ■ 554. Sovereign of the State of Vatican City ■ 555. True ■ 556. Vienna ■ 557. Caribbean Community and Common Market, CARICOM ■ 558. c ■ 559. Washington ■ 560. Yugoslavia ■ 561. Edvard Munch ■ 562. Marathonists ■ 563. Bolivia and Paraguay ■ 564. amyotrophic lateral sclerosis ■ 565. pool ■ 566. Enrico Fermi ■ 567. c ■ 568. Library Science ■ 569. Bjorn Borg ■ 570. Union Carbide ■ 571. both EU and NATO

the Economics of Innocent Fraud' is authored by (a. P.A. Samuelson b. J.M. Keynes c. J.K. Galbraith)

the singer who won a Grammy for his 'Softly and Tenderly' is (a. Frank Sinatra b. Frank Zappa c. Frank Miller d. Frank My Heart in San Francisco"

the world's largest city during 775-935.

Which of these countries has a flag very similar to the Indian flag: Malaysia / Liberia/ Maldives/ Hungary?

the first official chess world champion that game did Alfred Butts invent in 1897?

What brought the name of K. Ranganayana to the headlines in April, 1967?

Who appeared in Time magazine's cover-list of '100 people who shape our world', for using advanced technology of smart cards to dispense loans to thousands of Indians?

the British author Madeleine Wickham's real name

The first India-Pakistan bus service (1999) was between which two cities?

Allianz AG is Europe's largest

the former Japanese premier who was executed in Tokyo in 1948

China has about million Catholics

Which Indian State is the worst-affected by malnourishment among children, according to UNICEF?

Who succeeded Soviet leader Leonid Brezhnev?

Diplomatic relations between the Vatican City and Britain were broken off in 1531 after Henry VIII's

the College of New Jersey founded in 1746 evolved into what in 1896?

Who is Emanuel Lasker? a. Czech adventurer/ b. an Austrian swimmer/ c. an Italian tennis player/ d. a German chessmaster.

590. The English cricket captain who was given the initials MCC deliberately by his father

Millionaires of Britain

It is estimated that out of the 376,000 millionaires in Britain, 172,960 are females.

591. The top three car makers in Japan
592. The Indian who sold his product door-to-door in 1969 and became the 'detergent king'
593. Gro Harlem Brundtland was Prime Minister of her country three times. Name the country.
594. The Christian church calls the fundamental vices that underlie all sinful action (five / seven/ ten/ twelve) deadly sins.
595. Who introduced transformational generative grammar?
596. George Sand is the pseudonym of a woman writer. What is her real name?
597. Samson was a legendary hero of which tribe?
598. There are (3/6/12/24) pairs of ribs in humans.
599. One kiloton is equivalent to the explosive power of
600. The four-and-a-half-year old boy to set a record of running 65 km in 7.02 hours
601. How long did illusionist David Blaine spend in a glass box suspended above London's Thames in 2003?
602. The European country with a very low birth rate that has plans to give women a year's paid maternity leave
603. The founder director of IIM-Kolkata
604. 'My heart leaps up when I behold- A Rainbow in the sky'. The poet who wrote these lines
605. The number of central universities in India
606. The number of people worldwide suffering from diabetes
607. What is known as the 'British FBI'?

The average size of cells, of which plants and animals are composed.

Who gives the status of 'deemed university' to an institution of higher learning?

The Polish composer who lived with novelist George Sand for about 10 years.

What is common to Olof Palme, Carl Bildt and Ingvar Carlsson?

Irfan Pathan is (a. a graduate in Arts b. yet to appear for his 12th class exam c. an engineer d. doing his B.Sc.

The name of Jagdish Khattar reminds us of which of these products: (a. a fan b. a computer c. a saree d. a car)

Stereometry is the science of measuring what?

Actress Fatima Rashid is known to us as

The classic pocket watch 1907 - Turbillions and Grandstrike sells for Rs. 3.6 cr. in India. Who makes it?

Labyrinthitis is an inflammation of the

How many countries recognise Taipei rather than Beijing?

Forbes magazine's estimate of the wealth of Saudi King Abdullah, who tops the list of 'Kings, Queens and Dictators'.

Which of these is a German engineering conglomerate and truck maker: Heineken/MAN/Praxair/Doosan ?

621. India's first all-sports satellite radio channel

622. Mahendra Chaudhry was the first ethnic Indian Prime Minister of

623. Which country has a woman Defence Minister: France /US/ UK?

624. Elton John's song that became a funeral hit

625. The first woman to hold the post was a Canadian by name Ms. Louise Frechette. What is the post?

626. He did it first at the age of 40 and then again at the age of 77. Who is this American space hero?

627. The Prime Minister to be included in People magazine's list of the 50 Most Beautiful People in the world.

628. Bonnie was the name given to the offspring of world -famous sheep named

629. How much did the tiny territory of Hong Kong add to Chinese GDP at reunion with China in 1997?

630. Who was anointed by A.B. Vajpayee as the 'Lakshman' of BJP?

631. Who piloted the first private flight in India between Karachi and Madras in 1932?

632. Lusaka Protocol refers to the end of civil war in

Answers: 572.c ■ 573.Tony Bennet ■ 574.Baghdad ■ 575.Hungary ■ 576.William Steinitz ■ 577.Scrabble ■ 578. He was abducted and killed by Taliban in Afghanistan ■ 579.Vikram Akula ■ 580.Sophie Kinsella ■ 581.Delhi and Lahore ■ 582. insurer ■ 583.Hideki Tojo ■ 584.12 ■ 585.M.P. ■ 586.Yuri Andropov ■ 587.divorce ■ 588.Princeton University ■ 589.d ■ 590.Michael Colin Cowdrey ■ 591.Toyota, Honda, Nissan ■ 592.Karsanbhai Patel ■ 593.Norway ■ 594.seven ■ 595.Noam Chomsky ■ 596.Aurore Dudevant ■ 597.Dan ■ 598.12 ■ 599.1000 tons of TNT ■ 600.Budhia Singh ■ 601.44 days ■ 602.Germany ■ 603.K.T. Chandy ■ 604.William Wordsworth ■ 605.20 ■ 606.171 m. ■ 607.The Serious Organised Crime Agency ■ 608.0.01 to 0.1mm ■ 609.UGC ■ 610.Frederic Chopin ■ 611.Former Prime Ministers of Sweden ■ 612.b ■ 613.d ■ 614.volume ■ 615.Nargis ■ 616.Breguet ■ 617.Inner ear ■ 618.25 ■ 619.\$21b ■ 620.MAN ■ 621.PLAY ■ 622.Fiji ■ 623.France ■ 624.Candle in the Wind ■ 625.UN Deputy Secretary General ■ 626.John Glenn; 627.Tony Blair ■ 628.Dolly ■ 629.20 per cent ■ 630.Pramod Mahajan ■ 631.J.R.D.Tata ■ 632.Angola;

672. The Asian country unified in 1976
 673. Which important national body came into existence on March 15, 1950?
 674. How old was Shivaji when he died?
 675. Thojib Suharto was the second president of
 676. Donald Duck first appeared in Disney's
 677. The epic poem 'The Light of Asia' is about (Tagore / Gandhiji/ the Dalai Lama/ the Buddha)
 678. The celebrated naval commander who lost an eye and an arm
 679. Prada is a big name. In which business?
 680. Say True or False: Meryl Streep, one of the world's best actresses, can sing.
 681. What happened in the sea of tranquility on July 20, 1969?
 682. Of which band is actor Roopa Ganguly a member?
 683. Michael Manley was a political leader of which country?
 684. What replaced the call sign CQD as an international distress signal?
 685. With which attack is the name Isoroku Yamamoto associated?
 686. Mozambique's founding President who died in an air crash in 1986.
 687. There is no traffic light in (Ethiopia/Italy/ Bhutan/ Eritrea).
 688. Whose works are 'The Brainfever Bird' and 'Red'?
 689. President Reagan was shot and wounded in 1981. Name another VIP who had the same experience in that year?
 690. The former US Secretary of State who appeared in an episode of 'Gilmore Girls'
 691. Who was once the world's youngest king? He is an Asian.
 692. The number of countries that participated in the first Asian Games
 693. The French industrialist who built the first factories for mass production of rubber tyres.
 694. 'Autopilot' is also called
 695. Caliban is a character in Shakespeare's
 696. 'Global village' is an expression coined by
 697. Another name for lady's finger is
 698. The only athlete to hold world records at 800 metres, 1000 metres, 1500 metres, and mile simultaneously.
 699. Who among these was an artist: a. Frida Kahlo b. Alva Myrdal c. Eva Peron d. Simone de Beauvoir?

Answers: 633. May 11 ■ 634. Dec. 9, 1946 ■ 635. Rs. 40,000 ■ 636. Council of States ■ 637. Goa ■ 638. Kerala ■ 639. Tamil ■ 640. Dr. Rajkumar and Naushad Ali ■ 641. New Zealand ■ 642. The Capitol ■ 643. Postage Stamps ■ 644. Austria ■ 645. Galaxies ■ 646. San Francisco; 647. d ■ 648. False ■ 649. Germany ■ 650. Susan, Sofia and Judith Polgar ■ 651. King George I of Greece ■ 652. Citizen Kane ■ 653. Salman Rushdie ■ 654. J.K. Galbraith. ■ 655. Japan and S. Korea ■ 656. Monrovia ■ 657. John F. Kennedy ■ 658. 59 years ■ 659. The Salvation Army ■ 660. Fidelity ■ 661. Sister Sudha Varghese ■ 662. Rome ■ 663. Helen Armstrong whose professional name was Dame Nellie Melba ■ 664. fourth ■ 665. cricket ace C.K. Naidu ■ 666. Singapore ■ 667. Physicist ■ 668. 'Children of Midnight' ■ 669. David Mamet ■ 670. Andre Agassi and Steffi Graff ■ 671. Rainbow Warrior ■ 672. Vietnam ■ 673. Planning Commission ■ 674. 50 ■ 675. Indonesia ■ 676. The Wise Little Hen ■ 677. the Buddha ■ 678. Horatio Nelson ■ 679. Fashion ■ 680. True ■ 681. Man landed there for the first time ■ 682. Crazy Cousins ■ 683. Jamaica ■ 684. SOS ■ 685. attack on Pearl Harbour ■ 686. Samora Machel ■ 687. Bhutan ■ 688. Allan Sealy ■ 689. Pope John Paul II ■ 690. Madeleine Albright ■ 691. Jigme Singye Wangchuck of Bhutan ■ 692. 11 ■ 693. Andre Michelin ■ 694. robot pilot ■ 695. *The Tempest* ■ 696. Marshall McLuhan ■ 697. Okra ■ 698. Sebastian Coe ■ 699. a

700. The Portuguese prince noted for his patronage of voyages
701. The only woman to become CM of Orissa
702. The arms manufacturer Krupp's factories in were founded in the early 19th century.
703. The Ethiopian Emperor who ruled for 44 years
704. Mimesis is the imitation of in art, literature, etc.
705. 'Policy cannot be succeeded through speeches and songs; it can only be carried out through blood and iron'. These are the words of
706. President F.D.R. Roosevelt's wife Eleanor was a niece of
707. 'Phenomenology of the mind' is a doctrine associated with which philosopher?
708. The standardised exam that tests proficiency in Chinese, similar to TOEFL for English.
709. Which African capital was formerly known as Bathurst?
710. The two Indians on whom Tata Institute of Social Sciences conferred the degree of doctor of literature in May, 2006
711. Backgammon is a (a. spice b. snake c. game d. colour)
712. The annual salary of British Prime Minister Tony Blair
713. The lowest paid leader of the 13 European countries surveyed by Hay Group in May '06
714. In a CNN-IBN online poll in May '06, A.P.J. Abdul Kalam was voted the biggest icon in Tamil Nadu. Who won the second spot?
715. Lilian Gertrud Asplund died in 99 in May 2006. What makes her unique?
716. Where was Princess Elizabeth - today the British Queen - when her father King George VI died in 1952?
717. Innsbruck, the winter sports centre in Austria, is on which river?

Most Corrupt

According to Transparency International's Corruption Perceptions Index, 2005, the most corrupt countries were Chad and Bangladesh. The least corrupt was Iceland.

718. Teddy bears get their name from
719. Alexander the Great became King of Macedonia at the age of
720. Rene Koty was President of
721. The age at which British admiral Horatio Nelson joined the navy
722. A piece of metal pipe filled with an explosive used to clear a path of barbed wire. It has an Indian city in its name.
723. The cushion of a billiard table is called (bank/ shoe/ pad/velvet).
724. The two brothers who authored 'Grimm's Fairy Tales'
725. What was offered by King George II of Britain to Robert Walpole, the first Prime Minister as a gift?
726. Marduk was (an Abyssinian/ a Syrian/ a Babylonian/ a Japanese) god.
727. How old was Anshul Khosla when he won the Best Script award for 'Love Changes Everything' in May 2006 at Toronto?
728. The ship that the French Government recalled owing to protests by India over its toxic contents.
729. The largest sports federation for the mentally challenged in India
730. The number of Indian rural households without electricity.
731. The musician who had 20 children, three of whom became famous musicians
732. Of which great leader was Ann Rutledge allegedly the fiancée?
733. Who is the author of 'Freedom is not Free'?
734. Thanksgiving Day is the fourth Thursday in November, for USA. In Canada it is the second

o was British Prime Minister after
old Macmillan?

at is special about Punta Arenas?
ch of these words means 'red': rushy,
ous, rudd, rummy?

e Roman number XXC is equal to
t in Arabic numeral?

nce Age is thought to have begun
..... with the launching of the
sputnik on

e 1960s' TV series in which bottle-
e dolphins starred

e first non-Italian pope Adrian VI was
n (Dutch/English/German/Portuguese).
dam' in Hebrew means

zero population growth, the birth-
e equals the

e country with biggest HIV caseload
m. infected people

ow long is the Aswan High Dam in
gypt?

law, the unlawful use of any physical
on someone else is called (cell/bat-
ry/lightning/blow)

ow many members make an absolute
majority of the UN states?

Who composed the memorable

'Zindagi' song 'soja rajkumari' and who
sang it?

749. The largest producer and consumer of
coal in the world

750. The three countries sometimes referred
to as the East Asian big three

751. The woman who was a member of Asia's
first elected communist government

752. The sports goods firm that sponsored
12 of the 36 countries in Soccer World
Cup 2006.

753. Who was given the Nobel Peace Prize
along with Anwar Sadat of Egypt?

754. Oscar Wilde's last play

755. The English novelist who was interested
in Indian philosophy and religion and
translated the 'Bhagavadgita' with
Swami Prabhavananda

756. George Bernard Shaw's romantic com-
edy 'Pygmalion' was first produced in
which language?

757. Alfred Hitchcock made a classic film
'Birds' based on a short story written by

758. The story of John Keats 'Isabella' is drawn
from

759. The great inventor who was professor
of vocal physiology at Boston University

Answers: 700. Henry The Navigator * 701. Nandini Satpathy * 702. Essen * 703. Haile
Assie I * 704. nature * 705. Bismarck * 706. President Theodore Roosevelt * 707. Hegel
* 708. HSK * 709. Banjul, capital of Gambia * 710. Baba Amte and Ratan Tata * 711. C *
* 712. 268,500 euro * 713. Slovakia * 714. Rajinikant and A.R. Rahman * 715. She was the
US Titanic survivor * 716. Holidaying in Kenya * 717. The Inn river * 718. US President
Theodore Roosevelt * 719. 20 * 720. France * 721. 12 * 722. bangalore torpedo * 723. bank
* 724. Jacob Grimm and Wilhelm Grimm * 725. No. 10 Downing Street * 726. Babylon
* 727. 9 * 728. Clemenceau * 729. Special Olympics Bharat * 730. 78 m. * 731. ...
* 732. Abraham Lincoln * 733. Shiv Khera * 734. Monday in October * 735. ...
Douglas-Home * 736. the world's southernmost city * 737. rubious * 738. 80 * 739. ...
1957 * 740. 'Flipper' * 741. Dutch * 742. man * 743. death rate * 744. ...
745. About 5 km. * 746. battery * 747. 97 * 748. Pankaj Mullick and ...
* 749. China * 750. China, Japan and Korea * 751. K.R. ...
* 752. Puma * 753. Menachem Begin of Israel * 754. The Impor ...
* 755. Christopher Isherwood * 756. German * 757. Dame ...
* 758. ...
* 759. Alexander Graham Bell

760. The Frenchmen whose hot-air balloon made the first manned flight in 1783 are known as
761. COMECON, founded in 1949, had its headquarters in
762. Finger spelling is used by (a. the blind b. the deaf and dumb c. the army d. the coastguards)
763. CL is the auto registration mark of which country?
764. In May, 2006 who became Chief Minister of a State for the fifth time?
765. Ben Jonson wrote the comedy 'Every Man in His Humour'. Who wrote 'Every Man Out of His Humour'?
766. A cup of tea contains about per cent as much caffeine as a cup of coffee
767. 'Proud Volta of my ancestors' is the national anthem of
768. The world's most sparsely settled country
769. The Danish physicist who explained the structure of the atom in 1913
770. Chihuahua is (a. a large bear b. a very small dog c. an ornamental cabinet d. a river in Cameroon)
771. A metric system of units based on the metre, kilogram and second (now replaced in science by SI units), is known by the three letters
772. Which GBS character was based on scholar and phonetician Henry Sweet?
773. The Persian god of light, truth and justice, who killed a cosmic bull whose blood was the source of all animals and plants?
774. A hydrated form of calcium sulphate, used for casts for broken limbs and for modelling
775. Prime Minister David Lloyd George called it 'the steel frame' that held the Raj together. What are we talking about?
776. In which work do we see the character Colonel Pickering?

River Trains

There are about 40 trains in India named after rivers in the country.

777. The Dubai Ports World – operated India Gateway Terminals Ltd. at Kochi was formerly known as
778. Match 'Blue Lady' with the appropriate item: a. Supreme Court b. James Bond c. IBM Computer d. Norwegian ship
779. K.S. Krishnan was the first Director (in 1948) of which institution in New Delhi?
780. Michael Griffin is the Administrator of
781. The Indian tennis and cricket stars who are product ambassadors of Deutsche Bank
782. Buddenbrooks was the first novel of
783. The car Roger Moore drove in the film 'For Your Eyes Only'
784. What is CET?
785. Kibera is the biggest slum in which country?
786. Rani Lakshmi of Jhansi's original name
787. The first European to see the Pacific Ocean
788. Lazlo Biro, who created the first ballpoint pen, was a Hungarian (doctor /preacher /scientist/ journalist).
789. The seventh largest (in area) country in the world
790. The year Coca Cola was introduced
791. Britain's largest port is London. Which is the second largest?
792. Hexacosanoic acid is another name for which acid? It occurs in beeswax.
793. Whose words are these: 'The good thing about art is that it does not allow you to lie'
794. Whom did Leon Czolgosz kill in 1901?
795. The Satish Dhawan Space Centre is at (a. Thiruvananthapuram b. Mumbai c. Bangalore d. Sriharikota)

6. The approximate number of Indian tourists travelling abroad each year (a.250,000 b.900,000 c.1,500,000 d.3,000,000)
7. The plant named after the founder of Singapore Sir Stamford Raffles
8. Which country joined G7 to make it G8?
9. What is special about the MLA from Nandanpur, West Bengal who got elected in May '06?
10. Quinquennial is a (fifth/15th/50th/150th) anniversary
11. A writer began his first novel in the Channel Islands, finished it in London and saw it published in India. Name the author and the book.
12. The first metal used by man
13. Which word used in the game of chess comes from the Persian 'shah mat' meaning 'the king is dead'?
14. The inflation rate of 1043 per cent recorded in May '06 was the highest in the world. Which country?
15. French Sudan is today's (a. Malawi b. Sudan c. Mali d. Cameroon)
16. German actress Ursula Patzschke is the world's first
17. The word 'Safari' comes from which language?
18. Indian tourists can legitimately take out of the country how much per person per year?
19. Of what was the first compact disc made in 1983?
20. The top conservation honour won by Suprabha Seshan in 2006
21. A film having no sound track is a
22. One century ago, the day was (shorter / longer) by 0.00073 seconds.
23. How much interest does the IMF charge poor countries for loans?
24. The book that begins with the sentence 'It was the best of times'
25. The year Reuter founded a news agency
26. A cubic meter of water weighs
27. The film personality who was married to actress Vivien Leigh and Joan Plowright
28. The art movement created by Pablo Picasso and Georges Braque?
29. Which of these is not an independent country-Brunei, Bahrain, Bermuda, Bahamas?
30. V.D. Trivedi is India's first (a. commission agent b. literary agent c. surgeon d. advocate)
31. Which of these Marlon Brando films won the Academy Award : Julius Ceasar, The Wild One, On the Waterfront, The Godfather, Last Tango in Paris?

Answers: 760. The Montgolfier brothers ■ 761. Moscow ■ 762. b ■ 763. Sri Lanka ■ 764. M. Karunanidhi ■ 765. Ben Jonson ■ 766. 60 ■ 767. Burkina Faso ■ 768. Mongolia ■ 769. Niels Bohr ■ 770. b ■ 771. m.k.s. system ■ 772. Professor Higgins ■ 773. Mithra ■ 774. plaster of Paris ■ 775. Indian Civil Service ■ 776. *Pygmalion* / *My Fair lady* ■ 777. Rajiv Gandhi Container Terminal ■ 778. d ■ 779. National Physical Laboratory; 780. NASA; 781. Sania Mirza and Sunil Gavaskar ■ 782. Thomas Mann; 783. Lotus Esprit Turbo; 784. Central European Time ■ 785. Kenya ■ 786. Manikarnika; 787. Vasco Nunez de Balboa; 788. journalist ■ 789. India ■ 790. 1886 ■ 791. Liverpool; 792. Cerotic acid; 793. Anton Chekhov; 794. US President William McKinley ■ 795. d; 796. d; 797. Rafflesia; 798. Russia; 799. Bula Chowdhury is an international swimmer ■ 800. fifth; 801. Ruskin Bond, *The Room on the Roof*; 802. copper; 803. checkmate; 804. Zimbabwe; 805. c. Mali; 806. television announcer; 807. Swahili; 808. \$10,000; 809. aluminium; 810. Whitley Award; 811. silent film; 812. shorter; 813. 0.5 per cent; 814. Charles Dickens' *A Tale of Two Cities*; 815. 1851; 816. a tonne; 817. Laurence Olivier; 818. Cubism; 819. Bermuda; 820. b; 821. On the Waterfront Godfather.

822. The first devaluation of the rupee after Independence was in the year
823. All IMF shareholders are (a. corporations b. governments c. in the developing world d. Americans)
824. Godspeed means a. privacy b. speed c. money d. success
825. Indonesia's independence from which country was formally recognised in 1949?
826. Annie Besant was of which nationality by birth?
827. The country with a \$700 b. trade deficit - the world's biggest in 2006: USA/UK/ Brazil/China
828. Where is the archaeological site Olduvai Gorge?
829. The first living artist in 1961 to have his works exhibited in the Louvre
830. Number of people who die every year worldwide from injury-related deaths, according to WHO
831. Which Picasso painting was sold for 95 m. dollars in May, 2006?
832. Who is the author of 'Kargil: From Surprise to Victory'?
833. World's biggest banana grower
834. The number of runs amassed by Vivian Richards in 1976
835. The charge for a minute of a mobile phone call is Re.1 today. What was the rate in 1996?
836. What per cent of global gold production is consumed by India?
837. The market capitalisation of stocks listed in BSE in May '06 was around Rs.35 lakh cr. This figure has a special importance. What is it?
838. The Suez Canal links Red Sea and
839. The most populous country is China. Which is the most populous city?
840. Owen Falls, the world's greatest man-made lake, is in (USA/Zimbabwe/ Canada/Uganda).
841. Agra is on river Yamuna. What about Lucknow?

Highest Earners

Footballer David Beckham of U.K. earned \$32.5 million and tennis player Maria Sharapova of Russia earned \$18.2 million in 2005.

842. Who wrote 'Speedpost'?
843. In 1975 National Film Award was converted into National Film Festival with as its symbol.
844. Production of MIG (Russian) air force plane started in 1966 at
845. India's second satellite
846. Number of Lok Sabha seats in Goa
847. Number of Rajya Sabha seats in U.P.
848. The number of personnel in Indian Army
849. CFA franc is the currency in (Libya, Cameroon, Brazil, Chile)
850. India's state-of-the art Main Battle Tank unveiled in 1996?
851. The Chief Minister assassinated in Aug. '95.
852. Shambhu Mitra's area of work - film / dance/ magic/ theatre.
853. The first country to adopt Christianity as its religion
854. The Tintin book published in the year the Dalai Lama fled from Tibet
855. Which of these is used to designate a document that is to be read only by a specified person a. eyesore b. eyeopener c. blind eye d. eyes-only
856. A flag officer is a naval officer holding the rank of
857. What record did Mark Inglis of New Zealand set in May, 2006?
858. The monarch who founded the Church of England
859. Who is hero in the film *The Da Vinci Code*?
860. A nanometre is one of the metre.
861. 'Employ' means (a. an employer b. the state of being employed c. an employee d. an employment exchange)

362. The first Indian bank to have a branch in China
363. She once worked as a cocktail waitress in a disco. Now she heads a government. Name?
364. How many HIV-infected people are believed to have died since the virus was first recognised?
365. Expand the initials of S.H.F.J. Manekshaw, India's first Field Marshal
366. The King Kong star and Oscar nominee who is a special representative of the UN in its efforts to raise awareness of AIDS
367. 'A' is used for ampere. What is the symbol 'N' used for?
368. One word for "the literary intelligentsia"
369. Which of these is of the highest rank: marquis, earl, viscount?
370. Who is Mona Pruthi?
371. The European country that is not a U.N. member.
372. The number of women in India who experience pregnancy, in a year.
373. Tynwald is the parliament of
374. 'Law of the Twelve Tables' refers to a. Roman law b. Greek law c. Solomon's law d. Noah's times
375. The Indian city that plays host to the International Kite Festival every January
876. The US black militant leader Malcolm X was born Malcolm
877. Which word means 'secret information': encounter/intelligence/code/mayday?
878. Plutocracy is the rule of the
879. A grizzly is
(a. a horrific thing/ b. any mammal/ c. a bear / d. a crocodile)
880. A person who makes or repairs barrels and casks is a
881. The word 'malapropism' has its origin in the play 'The Rivals' by (Sheridan / Shaw / Ibsen/ Shakespeare)
882. Which statement is true? a. Blue light is more strongly scattered than red b. Red light is more strongly scattered than blue c. Blue and red are the same in the scattering of light d. none of these is true.
883. Who headed the Truth and Reconciliation Commission that looked into crimes of apartheid in South Africa?
884. Greenwich is in (a. Wales b. Scotland c. England d. Ireland).
885. Ms. Sunita L. Williams is associated with (a. environmental campaigns b. modern art c. space science d. seismology)
886. Welly is an informal word for
887. The title that is the first stage of canonization: (honourable/pious/blessed/venerable)

Answers: 822.1949 ■ 823.b ■ 824.d ■ 825.The Netherlands ■ 826.Irish ■ 827.USA ■ 828.Tanzania ■ 829.Georges Braque ■ 830.5m. ■ 831. The 1941 portrait of his mistress Dora Maar with Cat ■ 832.Gen.V.P.Malik ■ 833.India ■ 834.1710 ■ 835.Rs.16 ■ 836.30 ■ 837.Very close to the country's G.D.P, i.e. Rs.35.3 lakh crore ■ 838. Mediterranean Sea ■ 839.Tokyo ■ 840.Uganda ■ 841.On river Gomti ■ 842.Shobha De ■ 843.lotus ■ 844.Nasik ■ 845.Bhaskara I ■ 846.2 ■ 847.31 ■ 848. about 1.1 m. ■ 849.Cameroon ■ 850.Arjun ■ 851.Beant Singh, Punjab ■ 852.theatre ■ 853.Armenia ■ 854.Tintin in Tibet ■ 855.d ■ 856.rear-admiral, vice-admiral or admiral ■ 857.the first double amputee to conquer the Everest ■ 858.Henry VIII ■ 859.Robert Langdon ■ 860.billionth ■ 861.b ■ 862.Bank of India ■ 863.Angela Merkel, Chancellor of Germany ■ 864.20 m. ■ 865.Sam Hormuj Framji Jamshedji ■ 866.Naomi Watts ■ 867.newton ■ 868.literati ■ 869.marquis ■ 870. The IAS topper of 2006 ■ 871.Vatican ■ 872.About 30 million ■ 873.the Isle of Man ■ 874. a ■ 875. Ahmedabad ■ 876. Little ■ 877.intelligence ■ 878.wealthy ■ 879.c ■ 880.cooper ■ 881. Sheridan ■ 882.a ■ 883. Archbishop Desmond Tutu ■ 884.c ■ 885.c ■ 886.wellington ■ 887.venerable

888. Who was married to Joe Dimaggio and Arthur Miller?
889. Arrange these cities from north to south: Pune, Bhopal, Gwalior, Bhopal, Madurai, Chandigarh
890. Atkins is a name associated with (a. swimming b. philately c. a diet plan d. a peace treaty)
891. Arrange these cities from east to west: Agartala, Ranchi, Dibrugarh, Rajkot, Jabalpur
892. Ribier is a variety of (a. apple b. table grape c. orange d. snake)
893. Plassey, where the British won a decisive victory in 1757, is a village in (a. Punjab b. West Bengal c. Haryana d. Maharashtra)
894. "No drama" is a classic Japanese theatrical form. What does 'no' mean?
895. Laughing gas is another name for
896. The first corporatised Indian port
897. What is common to Kobe, Bam, Latur and Tangshan?
898. The American classic often referred to as 'the first dog story ever written'?
899. Fidelio was which composer's only opera?
900. Who is sometimes referred to as the 'Lincoln of literature'?
901. The Indian Parliament (can/cannot) decide the salary of its own members
902. What makes Japanese entrepreneur Daisuke Enomoto famous?
903. Who of the following was a victim of assassins?
a. Charles I of England b. Jesus of Nazareth c. Leon Trotsky d. Gamal Abdel Nasser.
904. Minotaur is a legendary animal in Greek mythology linked to a. Helen b. Theseus c. Ulysses d. Andromeda
905. Which car in Spanish means 'charming'?
906. What activity unites Sirhan Sirhan, Lynette Fromme, K.C.S. Moni and Mehmet Agca?
907. The temperate grasslands of S. America

Cars Per 1000 People

Luxembourg with 576 is at the top. It is followed by U.S.A. - 476; Somalia - 0.1; Tajikistan - 0.1

- are known as a. Terai b. Steppe c. Savannah d. Pampas
908. The 26th Amendment of the Constitution relates to the a. banning of cow slaughter b. cancellation of Privy purses c. banning of caste privileges d. reorganisation of states.
909. In Rocky films, what is Rocky's surname?
910. The operations of Delhi airport were taken over from Airport Authority of India in May, 2006 by
911. Where is Infosys Technologies planning to develop a training facility to train 9,000 personnel at one place?
912. On what is Bill Clinton going to write a book, in a deal with publisher Alfred A. Knopf?
913. Which countries are parties in the TAP gas pipeline project?
914. One-third of this body's members retire every second year. a. Lok Sabha b. Supreme Court c. UN General Assembly d. Rajya Sabha
915. What is common to Taj Mahal, Rock Shelters of Bhimbekta and Kaziranga National Park?
916. The fairytale character whose nose would grow larger each time he told a lie
a. Peter Pan b. Cinderella c. Rumpelstiltskin d. Pinocchio
917. In BHEL, 'H' stands for
a. Handicrafts b. Handicapped c. Heavy d. Himalayan
918. The oculomotor nerve controls the muscles of the
919. With whom did Ismail Merchant collaborate to make a new genre of films?

920. A suspension bridge that hangs from chains is a
921. Janaki Amma was India's second
922. The only film director to have been awarded the Bharat Ratna
923. Bank of Aydhya is the sixth-largest lender in which country?
924. The Char Dham excursions cover Gangotri, Yamunotri, and
925. The youngest boxer, at 21, who took the world heavyweight title in 1956.
926. The ashes of Netaji were kept at the Renkoji temple in Mukherjee Commission said it is not his.
927. In which organ of the body is the pineal gland?
928. The maximum North-South distance in India
929. Among the following which has the highest population: Sikkim, Manipur, Mizoram, Arunachal?
930. Areawise, which is the smallest: Meghalaya, HP, J&K, Goa?
931. ABN Amro is a banking giant (Dutch/German/American/Swiss)
932. *Get out, Damned One* is his fourth novel. Who is the author?
933. The former RBI Governor who was Director of London School of Economics
934. Death of a veteran actor who was a director, dancer and singer and three times national award winner, occurred in 2005. Name the person.
935. On May 18, 2006 the Sensex plummeted 826 points. What was special about it?
936. The world's largest public company
937. In a love set in tennis, the loser (wins/loses) no games.
938. Which Naseeruddin Shah film deals with the world of the visually impaired?
939. The Crown Prince who shot dead members of the Nepal royal family in 2001.
940. The Kennedys are of USA, the Kenyattas are of Kenya and the Kabilas are of which country?
941. The venue of the 1936 Olympics
942. Bob Hunter was co-founder of (a. Amnesty International b. Red Cross c. League of Nations d. Geenepeace)
943. Fortis is the biggest financial-services company in
944. India's second biggest state, areawise
945. Population wise, the second biggest state is
946. The smallest Union Territory, areawise
947. Who has been chosen the best Sikh hockey player?
948. Koguryo is an ancient kingdom of which country?

Answers: 888. Marilyn Monroe ■ 889. Chandigarh, Gwalior, Bhopal, Pune, Madurai ■ 890. c ■ 891. Dibrugarh, Agartala, Ranchi, Jabalpur, Rajkot ■ 892. b ■ 893. b ■ 894. talent or skill ■ 895. nitrous oxide ■ 896. Ennore ■ 897. suffered major earthquakes ■ 898. Jack London's 'The Call of the Wild' ■ 899. Beethoven ■ 900. Mark Twain ■ 901. can ■ 902. He is the 4th space tourist ■ 903. c ■ 904. b ■ 905. Matiz ■ 906. all are failed assassins ■ 907. d ■ 908. b ■ 909. Balboa ■ 910. Delhi International Airports Ltd. ■ 911. Mysore ■ 912. citizen activism and service ■ 913. Turkmenistan, Afghanistan, Pakistan ■ 914. d ■ 915. World Heritage Sites ■ 916. d ■ 917. c ■ 918. eyeballs ■ 919. James Ivory ■ 920. catenary bridge ■ 921. woman high court judge ■ 922. Satyajit Ray ■ 923. Thailand ■ 924. Badrinath and Kedarnath ■ 925. Floyd Patterson ■ 926. Japan ■ 927. brain ■ 928. 3214 km. ■ 929. Manipur ■ 930. Goa ■ 931. Dutch ■ 932. Saddam Hussein ■ 933. I.G. Patel ■ 934. P. Bhanumathi ■ 935. its biggest one-day fall in points ■ 936. Exxon Mobil Corp. ■ 937. wins ■ 938. 'Spash' ■ 939. D. P. ■ 940. the Congo ■ 941. Berlin ■ 942. d ■ 943. Belgium ■ 944. M.P. ■ 945. M.P. ■ 946. Chandigarh ■ 947. Balbir Singh ■ 948. Korea

949. Roshan Khan was a legend in what?
950. The year Dadra and Nagar Haveli was occupied by India
951. Khammam is one of the districts of (U.P./M.P./A.P./H.P.)
952. The world's biggest metals bourse
953. When Pakistani field hockey player Feroze Khan died at 100 in 2005, he was world's oldest
954. Invention of what is credited to Jack S. Kilby?
955. The role of Honey Rider was played by Ursula Andress in which film?
956. The special mobile phone number which was auctioned for 10 m. riyals in Qatar in May, '06.
957. The practice of eating earthy substances such as clay
958. The goddess representing primeval emptiness, in earliest Greek mythology
959. Argentine statesman Juan Peron's second wife was Evita Peron. Who was his third wife?
960. Whist and cribbage are (a. pianos b. card games c. insects d. terms in golf)
961. Latvia, Lithuania and Estonia are called the
962. Boris Pasternak's novel *Dr. Zhivago* was published in which country in 1957?
963. What is common to the capital of Penang state (Malaysia) and the capital of Guyana?
964. The abbreviation for the inscription 'Jesus of Nazareth King of the Jews' written in Hebrew, Greek and Latin placed on the cross upon which Jesus was crucified.
965. A natural disaster that occurred on 18 Apr. 1906.
966. Who led Iran's Islamic revolution?
967. The Colombian-American singer who lost her mother, aunt, and grandmother to breast cancer and declared a war on the disease and died of the disease
968. What is Jatiyo Sangsad Bhaban?
969. Someone from Latin America who has settled down in the USA is called a
970. The English actress who bore King Charles II two sons
971. Mythology: Storm gods who made thunderbolts for Zeus
972. The number of nuclear warheads possessed by the U.S.
973. 'Frugivorous' means: a. frugal b. fruit-eating c. poisonous d. of monks
974. 'On easy street' means a. living an immoral life b. difficult c. well-to-do d. doing small business
975. Ernest Siemens installed the first telegraphic line between Frankfurt and in 1849.
976. Which word means 'an error': *slop/slime* skid/slip-up
977. The world's most popular sport
978. 'Around sourcing' has replaced outsourcing. Who coined the term 'around sourcing'?
979. Number of policemen per 1000 people in India.
980. Podgorica, the capital of Montenegro was known from 1948 to 1992 as
981. Fiction: the boy who runs away to 'Never-Never Land' and never grows up
982. A ductule is (a. a small duct b. a big duct c. a ductless gland d. a disease of ducks)
983. In 1954, George Devol and Joseph Engelberger created the world's first
984. The youngest Indian to enter the international chess rating list
985. Kapil Dev's full name
986. In Oct. 2002, LTTE leader Velupillai Prabhakaran was sentenced to rigorous imprisonment for how long?
987. The millennium's first new nation
988. The unit of weight for precious stones equal to two milligrams
989. The original TV Superman
990. The division of the psyche, according to Freud
991. Which word means 'a detective': *spear* head/sleuth/slider/sloth?
992. Who is Prince Henrik of Denmark?

993. Nuku'alofa is the capital of
 994. World's first cloned dog
 995. The infectious disease visceral leishmaniasis, found in South Asia and the Mediterranean, is more known by the name
 996. 'No Name' is in erstwhile Yugoslavia. What is it?
 997. Tiger Wood's Masters win in 1997 was the first for a
 998. A flagon is (a. a container for liquids b. a small flask with a stopper c. a large fan d. a protein)
 999. The Nobel Peace Prize winner whose memoir is titled 'Iran Awakening'
 1000. Which of these is an island: Prince of Wales/P rince George/ Princess Royal/ Prince of Darkness?

Answers: 949.Squash ■ 950.1954 ■ 951.A.P. ■ 952.London Metal Exchange ■ 953.Olympic medal winner ■ 954.microchip ■ 955.The first James Bond movie *Dr.No* ■ 956.6666666 ■ 957.geophagy ■ 958.Chaos ■ 959.Isabel Peron ■ 960.b; 961.Baltic states ■ 962.Italy ■ 963.Both are called Georgetown ■ 964.INRI ■ 965.San Francisco earthquake ■ 966.Ayatullah Khomeini ■ 967.Soraya ■ 968.Bangladesh's National Assembly ■ 969.Latino ■ 970.Nell Gwyn ■ 971.Cyclops ■ 972.10,000 ■ 973.b ■ 974.c ■ 975.Berlin ■ 976.slip-up ■ 977.football ■ 978.Thomas L.Friedman ■ 979.1.2 ■ 980.Titograd ■ 981.Peter Pan ■ 982.a ■ 983.industrial robots ■ 984.9-year-old Parimarjan Negi, Apr.2002, 8 $\frac{1}{2}$ -year-old N. Srinath, Aug.2002 ■ 985.Kapil Dev Ramlal Nikhanj ■ 986.200 years ■ 987.East Timor ■ 988.point ■ 989.George Reeve ■ 990.the ego, super ego, the id ■ 991.sleuth ■ 992.Queen Margrethe II's husband ■ 993.Tonga ■ 994.Snuppy ■ 995.Kalazar ■ 996.A pop group in Montenegro ■ 997.black player ■ 998.a ■ 999.Shirin Ebadi ■ 1000.Prince of Wales.

GREETINGS

How They Say Good Morning in European Countries

Czech *Dobre rano*
 Danish *God morgen*
 Dutch *Goedemorgen*
 English *Good morning*
 Estonian *Tere hommikust*
 Finnish *Hyvaa huomenta*
 French *Bonjour*
 German *Guten Morgen*
 Greek *Kalimera*
 Hungarian *Jo reggelt*
 Italian *Buon giorno*
 Latvian *Labrit*
 Lithuanian *Labas Rytas*
 Maltese *L-Ghodwa t-Tajba*
 Polish *Dzien dobry*
 Portuguese *Bom dia*

Slovak *Dobre rano*
 Slovene *Dobro jutro*
 Spanish *Buenos dias*
 Swedish *God morgon*

More Forms of Greetings

Namaste/Namaskar Hindi
 Ahlan wasahlan Arabic
 Vanakkam Tamil
 Namaskaram Malayalam
 Zdravstvuyite Russia
 Assalm-u-alaikum Urdu
 Nin hao Mandarin
 Sat Sri Akal Punjabi
 Nomoskar

Who's Who

Aaron, Hank (b.1934): US baseball player, originally Henry Louis. Career home runs: 755; Extra-base hits: 1477; Runs batted in: 2297.

Abdullah, Sheikh (1906-'82): Indian political leader and founder of National Conference. Chief Minister of Jammu & Kashmir.

Abu Bakr (573-634): Muslim leader, first caliph, chosen successor to Mohammed.

Abul Fazal (1551-1602): Persian scholar and writer, patronised by Akbar.

Achebe, Chinua (b.1930): Nigerian novelist. *Arrow of God*.

Acheson, Dean (Gooderham) (1893-1971): American lawyer and statesman, Secretary of State. Promoted Marshall Plan and helped to establish NATO.

Acton, John (1834-1902): British historian who authored the adage "power tends to corrupt and absolute power corrupts absolutely".

Adams, Gerry (b.1949): President of Irish Republican Army's political wing Sinn Féin.

Adlleshalah, Malcom (1910-'94): Indian educationist and economist who was the Vice-Chancellor of Madras University and Deputy D-G of UNESCO. Padma Bhushan.

Adler, Alfred (1870-1937): Viennese psychologist who introduced inferiority complex.

Advani, Lal Kishinchand (b.1927): India's Deputy Prime Minister from 2002 to 2004. *Union Minister for Information*, Mar. '77- July '79. Home Minister, 1998-2002. Bharatiya Janata Party President since 2005, a post he had held until 1998.

Aeschylus (b.525-456 BC): Greek tragic poet.

Aesop (c.620-560 BC): Greek slave, semi-legendary, semi-historical.

Aga Khan (b.1878-1957): Ismaili Imam, of 20 million followers.

Agassi, Andre (b.1968): American tennis star. Wimbledon champion, 1999.

Agrawal, Ramesh Chandra (b.1904-1971): Indian physicist, professor of Physics, IIT Bombay. Found a quantum theory of the electron.

Ahmed, Yashwantrao (b.1904-1971): Indian freedom fighter, Fifth President of India.

Aiken, John (b.1904-1971): American mathematician, runner of the 100 yards.

Akbar, Humayun (b.1556-1606): Mughal Emperor (1556-1606) who extended the empire to the Deccan and showed a tolerance for Christians.

Akila, John (b.1904-1971): Indian Christian leader, founder of the Christian Church in India.

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Egypt; founded Alexandria; penetrated to India; died at Babylon.

Frederick The Great (249-899): King of Prussia who became a national figure of Britain.

J. Aruna Asaf (1909-96): Indian freedom fighter; Mayor of Delhi, 1958. A devoted nationalist, radical in her views. Bharat Ratna, '97.

J. Muhammed (Originally Cassius Clay) (b. 1942): American pugilist famous for his unorthodox style and colourful personality. First boxer to win the heavyweight title three times.

J. Salim (1896-1987): Indian ornithologist, known as "The Birdman of India". *For a Sparrow*.

Alende, Salvador

(19-73): Chilean Marxist; elected President (1970), becoming the first Marxist head of government in S. America.

Ambedkar, Bhimrao Ramji (Dr.) (1-1956): Indian jurist, social worker, politician, writer, educationist. Emancipator of 'Untouchables' and crusader for social reform. Drafted the Indian constitution. Minister in Nehru's cabinet. Bharat Ratna in 1990.

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Alende

Amritraj, Vijay (b. 1953): India's Captain to Davis Cup from 1982. Only player to win Hail of Fame Tennis twice. Actor in Hollywood movies and TV serials.

Amte, Murlidhar Devidas (Baba Amte) (b. 1914): Indian social activist, best known for his work among leprosy patients. Awards: Magdasey, Templeton, Padma Vibhushan.

Amundsen, Roald (1872-1928): Norwegian explorer, first to reach South Pole (1911).

Anand, Dev (b. 1922): Evergreen Indian film star, with the longest period as hero.

Anand, Dr. Mulk Raj (1905-2004): Indian author, novelist, critic who wrote in English. Padma Bhushan; Utsaah, Cooile.

Anand, Viswanathan (b. 1965): Grandmaster. World No. 1 in speed chess. Youngest Asian to win International Master's title. Won 3 National Championships two times each. Beat Kasparov and Karpov. Arjuna award, Padmaashri, Rajiv Gandhi Kirti Ratna award.

Anderson, Hans Christian (1805-75): Danish fairy-tale writer, novelist, playwright and poet.

Anderson, Marian (1897-1993): American contralto, who pioneered acceptance of black singers in concert and opera worlds.

Andrews, Charles Freese (1871-1946): Englishman who adopted India as his home, and worked with Gandhi. Known as 'Deenabandhu'.

Angstrom, Anders Jonas (1814-74): Swedish physicist who founded the science of spectroscopy. The angstrom unit of measurement is named after him.

Annadurai, C.N. (1909-'69): Most popular Chief Minister (1967) of Tamil Nadu, and eminent writer in Tamil. Former Dravida Munnetra Kazhagam.

Annan, Kofi (b. 1928): Ghanaian-born

UN Secretary General since 1997. Nobel Prize, 2001.

Anne, Queen (1665-1714): Queen of Great Britain and Ireland. (1702-1714)

Antonioni, Michelangelo (b.1911): Italian avant-garde motion-picture director and screenwriter, whose films are known for their haunting images of human isolation. Oscar, 1995. *L'Avventura*

Antonius Marcus (Mark Antony) (c. 83-30 B.C.): Roman politician and general; triumvir. Fell in love with Cleopatra; committed suicide.

Antony, St. (c. 251-356): Father of Christian monasticism and founder of religious community life.

Ao, Tallmeren Dr. (1916-'98): First captain of independent India's Olympic football team.

Aquinas, Thomas St. (c. 1225-'74): Italian theologian and scholastic philosopher.

Arafat, Yasser (1929-2004): (Mohammed Abdel-Raouf Arafat al-Qudwa al-Husseini) Palestinian President until death. Leader of PLO from 1968; Shared Nobel Peace Prize, '94.

Archer, Thomas (1668-1743): British architect. Practitioner of Baroque style.

Archimedes (287-212 B.C.): Greek mathematician and engineer. Known for Archimedes Principle. Invented Archimedeian screw.

Aristotle (384-322 B.C.): Greek teacher and philosopher, pupil of Plato, tutor to the young prince Alexander of Macedon.

Armstrong, Louis 'Satchmo' (1900-71): American jazz trumpeter, and singer, a popular entertainer of 20th century

Armstrong, Nell (b. 1930): American astronaut, the first man to set foot on the moon, (Apollo XI mission) 21 July 1969.

Arnold, Matthew (1822-'88): English poet and critic. *The Scholar Gypsy*.

Arundale, George Sydney (1878-1945): An Englishman who adopted India

as his home. Advocate of national education and the Swadeshi movement. Married Rukmini Devi.

Aryabhata (476-520): Indian mathematician and astronomer. India's first satellite was named after him.

Asan, Kumaran (1873-1924): Renowned Indian (Malayalam) poet and social worker.

Ashapura Devi (1909-'95): Bengali writer. First woman Gyanpith award winner. *Prathama Pratishruti*, *Subarnolata*, *Bokul Katha*.

Ashcroft, Peggy (1907-1991): One of the greatest actresses of British stage. Remembered for her role in the film *A Passage to India* (Oscar) and the TV series *The Jewel in the Crown*.

Asimov, Isaac (1920-92): US biochemist and writer of non-fiction. Born in Russia. *Foundation Trilogy*, *The Edge of Tomorrow*, *Inside the Atom*, *The Stars in their Courses*.

Asoka (3rd C. B.C.): Emperor of India. After victory in the Battle of Kalinga (261 B.C.), he renounced war and embraced Buddhism.

Asturias, Miguel Angel (1899-1974): Guatemalan writer and diplomat. *Men of Maize*, novel. Nobel Prize, 1967.

Ataturk, Kemal (Mustafa Kemal Ataturk) (1881-1938): Builder of modern Turkey, fine soldier, President of the Turkish Republic.

Attenborough, Sir Richard (b. 1923): British actor-director whose *Gandhi* (1983) won 8 Oscars.

Attila The Hun (406-53): Barbarian leader who helped to bring about the fall of the Roman Empire.

Attlee, Clement Richard (1883-1967): Labour Prime Minister of Britain, 1945-51. His Government granted independence to India.

Auden, Wystan Hugh (1907-'73): Poet, b. in England, a naturalised American. Professor of poetry at Oxford.

Augustus, Caius Octavianus (63 B.C.-A.D. 14): First Roman emperor.

Aurangzeb (1618-1707): Mughal emperor of India; Empire reached its fullest extent, but he estranged Hindus and Sikhs.

Aurobindo, Sri (Aurobindo Ghosh) (1872-1950): Indian philosopher, a revolutionary in his early days. Set up an Ashram in Pondichery. Retired into seclusion in 1926.

Austen, Jane (1775-1817): British novelist. *Emma, Pride and Prejudice*.

Ayyankali (1863-1941): Leader of Harijans, in Kerala. Mahatma Gandhi called him 'pulayaraja'. Great organiser.

Ayyar, Alladi Krishnaswami, Sir (1883-1953): Scholar and brilliant lawyer of Tamil Nadu.

Azad, Abul Kalam (1888-1958): Indian freedom-fighter, staunch nationalist; first Education Minister of free India. Bharat Ratna, 1992. *India Wins Freedom*.

Azad, Chandra Sekhar (1906-'31): Indian revolutionary; involved in Non-Cooperation Movement, the Assembly bomb incident, Delhi conspiracy, Lahore conspiracy.

Azana, Manuel (1880-1940): PM of Spain from 1931 to '33 and President from 1936 to '39. Spanish Civil War sent him into exile.

Azharudin, Mohammed (b. 1963): Indian cricketer, former Captain. Made a world record of 9079 runs in one-day internationals in June '99. Accused of involvement in match-fixing scam.

Azmi, Shabana (b. 1954): Indian film actress who won the national award five times. Social activist, former Rajya Sabha member. *Ankur, Arth, Khandhar, Paar, God-mother*.

Babar, Zahirud-din Mohammed (1483-1530): Founder of the Mughal dynasty which ruled northern India for nearly three centuries.

Babbage, Charles (1792-1871): English mathematician. His primitive calculating

The 1000th to die

Kenneth Lee Boyd, imprisoned for murders committed in 1988, was the 1000th person to be executed in U.S.A. since death penalty was reintroduced in 1977.

machines' were the precursors of the modern computer.

Bach, Johann Sebastian (1685-1750): Prolific German baroque composer.

Bachchan, Amitabh (b.1942): India's most popular film star ever. Over 100 movies. M.P. for a short while. *Zanjeer, Sholay, Diwar*. Son of poet Harivansh Rai Bachchan (1907-2003), known for his work *Madhushala* and autobiography in 4 volumes *Kya Bhoolun, Kya Yad Karoon*.

Bacon, Francis (1561-1626): English philosopher and essayist. *Novum Organum*.

Bacon, Roger (c.1214-92): English philosopher and scientist, called 'Doctor Mirabilis'. First European to describe the process for making gunpowder.

Baden Powell, Robert (1857-1941): Founder of Boy Scouts (1908). His sister Agnes founded Girl Guides (1910).

Bahadur Shah II (1775-1862): The last king of Mughal empire. Took part in the 1857 war of Independence in exile.

Bahuguna, Sundarlal (b.1927): Environmentalist. Known for the Chipko movement and fight against the building of dams.

Bajaj, Jamnalal (1886-1942): Gandhi's associate, founded Bajaj Ashram at Wardha, G.P. Bajaj was a Gandhi who named a Bajaj.

Baker, Laurie (b.1937): American writer who wrote the novel, *Invitation to a Beheading*.

Bala Saraswati, T. (b.1918): Foremost exponent of the Bharatanatyam style of dance.

Balzac, Honore de (1799-1850): French novelist. *La Comedie Humaine*.

Banabhatta (7th c.): Indian Sanskrit scholar and poet. *Kadambari*, *Harsh Charit*.

Bancroft, George (1800-1991): American historian who wrote the 10-volume *History of the United States*.

Bandaranaike, Solomon (1899-1959): PM of Ceylon from 1956 until assassination. Widow Sirimavo (1916-2000) became world's first woman PM, 1960. In 1994, daughter Chandrika Kumaratunga became President and Sirimavo PM of Sri Lanka.

Bandopadhyay, Padmavathy (b. 1944): The first woman Air Marshal of Indian Air Force. Received AVSM and VSM.

Bannerjee, Surendranath (1848-1952): One of the first Indians to qualify the ICS examination. Held the presidentship of Indian National Congress twice.

Bannerjee, Womesh Chandra (1844-1906): First President of Indian National Congress, Migrated to England in 1902.

Bannister, Sir Roger (b.1929): British athlete and doctor who became the first man to run a mile in four minutes in 1954.

Barnard, Christiaan Neethling (1922-2001): South African surgeon who performed the first human heart transplant operation.

Bartok, Bela (1881-1945): Hungarian composer and pianist.

Baskerville, John (1706-'75): British typographer who is known for the widely used Baskerville typeface.

Basu, Jyoti (b. 1914): Veteran communist leader. CM of West Bengal for a record five consecutive terms until Nov. 2000.

Batistuta, Gabriel (b. 1969): Former Argentine international footballer. Retired 2005.

Batuta, Ibn (1304-1378): Traveller from North Africa who spent eight years in India. His travelogue is a source for the political history of the Khalji and Tuglaq dynasties of the Delhi sultanate.

Beatles, The (Paul Mc Cartney, John Lennon (1940-80), George Harrison (1943-2001), Ringo Starr): English vocal and instrumental rock 'n'roll quartet whose highly original and melodic songs held the attention of youth all over the world in the 60s.



George Harrison

Beaverbrook, Lord (1879-1964): British financier, statesman and newspaper owner.

Becker, Boris (b. 1967): German tennis player. Youngest Wimbledon champion, 1985, 1986, 1989. Retired in 1997.

Becket, Samuel (1906-'89): Irish playwright and novelist. Nobel Prize, 1969.

Becket, Thomas (1118-'70): Saint and martyr. Archbishop of Canterbury who made the position of the church his first care and, came into conflict with King Henry II. Murdered in Canterbury Cathedral.

Beckham, David (b.1975): British football player with a huge fan following. His marriage to Victoria Adams, otherwise known as Posh Spice, has both made them targets for the tabloid press.

Bedi, Bishen Singh (b. 1946): Indian cricketer. Captain for 33 tests.

Bedi, Kiran (b. 1949): First woman Indian Police Service officer (1972). A former Asian Games women's tennis champion. Magsaysay award, 1995. UN medal for outstanding service, 2004.

Beethoven, Ludwig Van (1770-1827): German musician and composer. His symphonies, 9 in number, rank as the greatest ever written.

Begin, Menachem (1913-'92): Israeli

Prime Minister, 1977-'83. Made peace with Egypt (1979). Nobel Peace Prize, 1978.

Belafonte, Harry (b.1927): American entertainer, civil rights leader.

Bell, Alexander Graham (1847-1922): Scottish-born inventor of the telephone.

Ben Gurion, David (1886-1973): The first Prime Minister of Israel, 1948-63.

Benedict XVI (b. 1927): The Pope, head of the Roman Catholic Church since April 2005. Formerly Josef Ratzinger, the German Archbishop. Replaced John Paul II.

Benegal, Shyam (b.1934): Indian film director. *Akrosh, Mandi, Bharat Ek Khoj.*

Benes, Eduard (1884-1948): Czech statesman, President from 1935 to '38.

Bentham, Jeremy (1748-1832): British philosopher who developed the theory of utilitarianism.

Berry, Halle (b. 1968): US film actress. First black actress to win Oscar for best actress. *Monster's Ball.*

Bertolucci, Bernardo (b. 1940): Italian film director. *The Last Emperor* won 9 Oscars in 1987.

Besant, Annie (1847-1933): An Irish woman, staunch supporter of Indian independence movement. Social worker, educationist and reformer. Set up Home Rule League. President of INC, 1917. Established Theosophical Society of India.

Bessemer, Sir Henry (1813-'98): British metallurgist who invented the process of converting cast iron direct into steel.

Bhabha, Homi J. (1909-'66): The Indian scientist who was mainly responsible for creating the Bhabha Atomic Research Centre. Described as the father of Indian nuclear science.

Bhagwan Dass, Dr. (1869-1958): Vedic scholar, Indian freedom fighter. Bharat Ratna.

Bhagwati, Prof. Jagdish (b. 1934): India-born U.S. Professor of Economics at Columbia University.

Bharat Muni (5th c.): Sanskrit writer. *Vatya Shastra.*

191 m. Migrants

According to statistics available with the UN for the year 2005, the world has 191 million migrants.

Bharati, Subramanya (1881-1921): Indian poet, patriot and philosopher. His impact on Tamil literature is great. Title 'Bhavati' conferred by the Raja of Ettayapuram, Tamil Nadu.

Bhasa (5th c.): Sanskrit playwright. *Swapna Yaugandharayana, Charudatta.*

Bhaskara I (7th c.AD): Indian astronomer who was a contemporary of Brahmagupta.

Bhaskaracharya II (1114-c.1185): Great Indian mathematician and astronomer, who was the first to use the decimal system in a written work, invented the + and - convention, and used letters to represent unknown quantities as in modern algebra. *Sidhanta Shiromani.*

Bhatla, Sabeer (b. 1968): Indian-born co-founder of Hotmail. He sold Hotmail to Microsoft for US\$400 million.

Bhatnagar, Shanti Swarup (1894-1955): Indian scientist who created a chain of national laboratories. Director of CSIR, Secretary to AEC, Chairman of UGC. Science awards after his name.

Bhatt, Ela (b.1933): Emancipator of women in the self-employed sector. Magsaysay award, 1977.

Bhavabhuti (8th c.): A great Sanskrit dramatist. *Malatimadhava.*

Bhave, Vinoba (1895-1982): Disciple of Gandhi who led the Bhoodan movement. Bharat Ratna 1983, first Magsaysay award.

Bhutia, Baichu-Ng (b.1976): footballer from Sikkim. At 15, his

ter in the Subroto Mukherjee tournament Delhi. Arjuna Award.

Bhutto, Zulfikar Ali (1928-'79): Prime Minister of Pakistan who was ousted (1977) Gen. Zia-ul Haq whose government ousted him. His daughter **Benazir Bhutto** (1953) became Prime Minister, 1988- the first woman to head a modern Islamic state. Ousted in 1990.

Bimbisara (c.544 - 493 BC): Ruler of the Kingdom of Magadha, which he expanded. Built city Rajagriha. Patron to Mahavira and Buddha.

Bindra, Abhinav (b. 1983): Shooter from Chandigarh, won gold in 10 m. air rifle event at World Championships in Zagreb in 1996.

Bismarck, Otto Von (1815-'98): German statesman, chief architect of the German empire, known as 'the man of blood and iron'.

Blake, William (1757-1827): English poet, philosopher, artist. Songs of Innocence.

Bloch, Ernest (1880-1959): Swiss-born composer, famous for his chamber music. *Israel Symphony* (1916).

Boccaccio, Giovanni (1313-'75): Italian author and humanist; father of the novel. *Decameron, Life of Dante*.

Bohr, Niels (1885-1962): Danish physicist. Nobel Prize, for work on atomic structure.

Boleyn, Anne (1507-'36): Queen of Henry VIII of Britain and mother of Queen Elizabeth I. Beheaded.

Bolivar, Simon (1783-1830): South American revolutionist, called the Liberator. He founded Grand Colombia (now Venezuela, Colombia, Panama, Ecuador).

Bolkiah, Hassanali (b. 1946): Sultan of Brunei. One of the richest men in the world.

Bonfield, Margaret Grace (1873-1953): Labour politician and trade unionist. First British woman to hold cabinet office-minister of labour, 1923-31.

Boole, George (1815-'64): English mathematician best known for his invention of Boolean algebra.

Booth, William (1829-1912): English religious leader, founder of the salvation Army.

Border, Allan (b. 1956): Former Australian cricket captain who holds the world record of 156 Test matches. 11,174 test runs.

Bordoloi, Gopinath (1890-1950): One of the makers of modern Assam. Educationist. CM of Assam twice before Independence Bharat Ratna, 1999.

Borg, Bjorn (b. 1956): Swedish tennis player. World's top player in the late 70s. Fifth consecutive Wimbledon in 1980.

Borlaug, Norman Ernest (b. 1914): American wheat scientist responsible for the 'green revolution'. Nobel Peace Prize, 1970.

Borodin, Alexander Porfirevich (1833-87): One of the 'Russian Five' group of composers.

Borromini, Francesco (1599-1667): Italian architect. One of the three masters of Roman Baroque, the other two being Bernini and Pietro da Cortona.

Bosch, Hieronymus (1450-1516): Flemish painter. *The Garden of Earthly Delights, The Temptation of St. Anthony*.

Bose, Amar Gopal (b. 1929): American-born Indian professor of electrical engineering at MIT. In 1964, he founded the Bose Corporation, which specializes in designing and producing high quality sound systems.

Bose, Jagadish Chandra (1858-1937): Doyen of Indian science. Did original work in electricity.

Bose, Nandalal (1883-1966): Father of Modern Painting in India. Padma Bhushan.

Bose, Netaji Subhas Chandra (1897-1945): One of the leaders of India's freedom struggle. Formed the Indian National Army in 1943 to fight the British with the help of Japan. Reportedly killed in an air crash.

Bose, Satyendra Nath (1894-1974): Indian physicist after whom an elementary particle, the boson is named.

Boswell, James (1740-'95): Scottish author of the celebrated biography, *The Life of Samuel Johnson*.

Botha, Louis (1862-1919): The first PM of the Union of South Africa, 1910.

Botham, Ian Terence (b. 1955): English cricketer and coach, a great all-rounder with 14 test centuries (5200 runs) and 373 test wickets. First player to score a century and take 10 wickets in a test (1979).

Botvinnik, Mikhail (1911-'95): Russian electrical engineer who used his scientific training to hold the world chess title three times (1948-57, 58-60, 61-63).

Bourguiba, Habib (1903-2000): First President of Tunisia (1957-87). Proclaimed president for life in 1975. A coup overthrew him.

Boyd, William (b. 1952): British novelist. *The New Confessions*.

Bradman, Sir Donald (1908-2001): Australian cricket legend. Captain, 1936-48. 6996 runs in 52 games (average 99.94) including 29 centuries and a highest score of 334.

Bragg, Sir William Lawrence (1890-1971): English physicist born in Australia. With his father Sir William Henry Bragg (1862-1942), won Nobel Prize for Physics (1915).

Brahmagupta (598-680): The Indian mathematician who was the first to treat zero as a number. *Brahma Siddhanta*.

Brahms, Johannes (1833-97): German composer, who moved to Vienna. Orchestral works: four symphonies, two piano concertos and a concerto for violin. Large quantity of chamber music. Choral works include *A German Requiem* and *Alto Rhapsody*.

Braille, Louis (1809-'52): French educationist, who, as a (blind) teacher of the blind, devised the touch system of reading and writing for the blind.

Brando, Marlon (1924-2004): Out-

The Longest-ruling Monarch

When Thai King Bhumibol Adulyadej, the world's longest-ruling monarch, was crowned in 1946, he was an American-born teenager who had spent most of his childhood in exile. He became king on the death of brother King Ananda.

standing American stage and film actor. *On the Waterfront*, *The Godfather*.

Brandt, Willy (1913-'92): First Social Democratic chancellor of the Federal Republic of Germany, 1969-74. Nobel Prize, 1971.

Brezhnev, Leonid (1906-'82): Soviet President (1977); succeeded Khrushchev as First Secretary of the Communist Party, (1964-82).

Bronte, Charlotte (1816-'55): One of the three Bronte sisters, forceful novelist, author of *Jane Eyre*. Her sister Emily (1818-'48) wrote *Wuthering Heights*; and another sister Anne (1820-'49) wrote *Agnes Grey*.

Brooke, Rupert (1887-1915): English poet. Fought in WW I. *The Soldier*, *Clouds*, *The Dead*.

Brown, Dan (b. 1964): American author of best selling novel *The Da Vinci Code* (2003) with 36 million copies in print.

Brown, John (1800-'59): Hero of the song 'John Brown's Body'. An anti-slavery crusader who tried to start a slave revolt, was caught, and hanged.

Browning, Robert (1812-'89): English poet of the Victorian Era, famous for his dramatic monologues. Wife Elizabeth Barrett Browning (1806-'61) was poet too.

Bruce, Robert (1274-1329): national leader. King in 1306; deposed Edward II of England in 1314.

Brundtland, Gro Harlem (b.1939): Norway's first woman PM. She was PM in '81, '86, '90. Active environmentalist. Former Director General, WHO.

Brutus, Marcus Junius (85-42 B.C.): Roman senator famed as a conspirator against Julius Caesar.

Bubka, Sergel (b.1964): World's best pole vaulter from Ukraine. In '94, at 6.14m. World title six times.

Buck, Pearl S. (1892-1973): American author. Nobel Prize (1938), Pulitzer Prize, (1932). *The Good Earth*.

Bunin, Ivan (1870-1953): The first Russian to win the Nobel Prize for literature in 1933, after a long rivalry with Maxim Gorky.

Bunyan, John (1628-'88): A popular preacher and religious thinker. *The Pilgrim's Progress*.

Burke, Edmund (1729-'97): British parliamentarian, political philosopher; and orator.

Burns, Robert (1759-'96): Scotland's unofficial national poet

Bush, George Herbert Walker (b. 1924): American President, 1988-'92. Son George W. Bush (b.1946) 43rd U S President since Jan 20, 2001.

Butler, Samuel (1835-1902): English scholar, novelist. *The Way of All Flesh*.

Byrd, Richard Evelyn (1888-1957): American explorer. The first to fly over both North and South poles.

Byron, George Gordon (1788-1824): English romantic poet. At 20, he published *Hours of Idleness*; *Childe Harold's Pilgrimage* (1812).

Cabot, John (1425/50-c. 1500): Italian explorer. Discovered Newfoundland and Nova Scotia. Son Sebastian Cabot (1476-1557) made voyages to the New World.

Cabral, Pedro Alvarez (c.1467-c. 1520): Portuguese navigator, discovered Brazil.

Caesar, Julius (c. 101-44 B.C.): A great Roman general. Invaded Britain (55 B.C.) defeated Pompey whom he pursued to Egypt where he established Cleopatra as queen. In Rome he became dictator, and his reforms include the Julian calendar. Murdered.

Calvin, John (1509-'64): French Protestant reformer and theologian.

Cama, Bhikaji (1861-1936): Born in Bombay, she moved to Europe where she met Dadabhai Naoroji and other revolutionaries. Her home in Paris served as headquarters for Indian rebels against British rule. Imprisoned for revolutionary activities, she returned to India in 1935.

Camus, Albert (1913-'60): French novelist, dramatist; native of Algeria. *The Price of Justice*, and *L'Etranger*. Nobel prize, 1957

Capra, Frank (1897-1991): American moviemaker, a trendsetter who grabbed many firsts in film techniques.

Cardin, Pierre (b.1922): Internationally known Master designer. The haute couture czar with licencees in 125 countries.

Carlapa, Field Marshal. K.M (1900-'93): First Indian C-in-C of Indian Army 1943-'53.

Carlyle, Thomas (1795-1881): Scottish author. *Heroes and Hero Worship*.

Carnegie, Dale (1888-1955): American writer famous for self improvement manuals

Carter, James Earl (b. 1924): American Democratic President 1977-'81.

Cartier-Bresson, Henri (1908-2004): One of the master photographers of 20th century.

Cartland, Barbara (1902-2000): American best selling author, who wrote 71 books. 1b. copies sold in 36 languages.

Carver, George Washington (1860-1943): American agricultural chemist.

Castro, Fidel (b. 1927): Cuban revolutionary and political leader. President of Cuba. In 1959 overthrew a police state. In power for the longest period.

Catherine de Medicis (1519-89): Of France; Queen consort of Henry II, regent of France.

Catherine II (The Great) (1729-'96): Tsarina of Russia, a monarch of the Enlightenment.

Cave, Edward (1691-1754): English publisher. Founded *The Gentleman's Magazine*.

Caxton, William (1422-'91): the first English printer and publisher.

Celcius, Anders (1701-'44): Swedish inventor, astronomer. Devised (1742) Celcius or centigrade temperature scale.

Cervantes, Saavedra Miguel de (1547-1616): Spanish novelist and dramatist. *Don Quixote*.

Cezanne, Paul (1839-1906): French post-impressionist painter.

Chakravarty, Nikhil (1913-'98): Indian journalist, first Chairman of Prasar Bharati Board.

Chamberlain, Neville (1869-1940): English statesman, Prime Minister 1937-40.

Chan, Jackie (b.1954): Movie star from Hong Kong. Made 40 films since '76, when he was touted as the new Bruce Lee.

Chanakya (also known as Kautilya) (4th century B.C): Author of *Artha Shastra*, an authentic book on statecraft. Prime Minister to Chandragupta Maurya.

Chandler, Raymond Thornton (1888-1959): American detective story writer. Created cynical private detective Philip Marlowe.

Chandrasekhar (b. 1927): Indian politician, parliamentarian, socialist. President, Socialist Janata Party from 1977. Prime Minister, Nov. '90 to June '91.

Chandrasekhar, Subrahmanyam (1910-'95): Born at Lahore, an American citizen; nephew of Nobel laureate C. V. Raman. Won the Nobel prize for physics in 1930.

Chaplin, Charles Spencer (Charlie)

(1889-1977): Film star comedian, first international screen star, with more than 50 years' achievement. Born in London, he went to the United States in 1916. *The Kid, The Gold Rush, Limelight, The Tramp.*



Charlie Chaplin

Charlemagne (724-814): (Charles the Great). King of the Franks and Lombards, he founded a new Roman Empire comprising Gaul, Italy, and large parts of Spain and Germany; crowned Emperor.

Charles (Phillip Arthur George) (b. 1948): Prince of Wales, eldest son of Qn. Elizabeth II; married Diana Spencer ('81) divorced ('96), married Camilla Parker Bowles (2005).

Charles I (1600-'49): King of England, Scotland and Ireland, 1625. Attempted to rule without parliament; Beheaded.

Chatterji, Bankim Chandra (1838-'94): Poet, novelist and a great patriot of India (Bengal). *Vande Mataram* (Anand Math).

Chattopadhyay, Kamaladevi (1903-'88): The high priestess of Indian culture, arts, theatre and literature. Magsaysay award, 1966.

Chaucer, Geoffrey (1340-1400): English poet. *The Canterbury Tales*.

Chaudhuri, Nirad C. (1897-1999): Indian writer, and social critic, wrote in English and lived in England. *Autobiography of an Unknown Indian, A Passage to England*.

Chawla, Kalpana (b. 1961-2003): The first Indian American space woman. Travelled aboard space shuttle Columbia in Nov. '97. Died on her second space mission aboard Colombia.

Chekhov, Anton (1860-1904): dramatist and short story writer. *Vanya*.

Chembai Vaidyanatha Bhagavathar (1889-1974): Great (Carnatic) musician of India.

Cherenkov, Pavel Alekseyich (1904-1990): Soviet physicist. Discovered Cherenkov effect. Shared Nobel Prize (1958).

Chernenko, Konstantin Ustinovich (1911-'85): Soviet politician. Succeeded Andropov as General Secretary of the Communist Party.

Cheshire, Leonard (1918-'92): The World War II hero who set up a global network of houses for the disabled.

Chesterton, Gilbert Keith (1874-1936): English essayist, novelist and poet.

Chevalier, Maurice (1888-1972): French film actor, singer who became an international filmstar. *Love Me Tonight*, *Gigi*.

Chiang Kai-Shek (1887-1975): Chinese general. After Sun Yat-sen's death (1925), as commander of the Kuomintang army, he attempted to unite China; in 1949 retired to Formosa (Taiwan) after the victory of the Communists.

Chichester, Sir Francis (1901-'72): English yachtsman, aviator, sailed around world single-handed in *Gipsy Moth IV*, (1966-'67).

Chidambaram, Rajagopala (b. 1936): Chief scientific advisor to Govt. of India and former head of India's Atomic Energy Commission and the man who led the Pokhran nuclear test team (1998).

Chomsky, Noam (b. 1928): American scholar, commentator on global politics and one of world's most distinguished linguists.

Chopin, Fré'de'ric Francois (1810-'49): Polish pianist, composer; 'the poet of the piano'.

Choudhary, Sarbati Roy (b. 1933): Indian sculptor. Works include portraits and abstract bronzes.



Chembai

Christie, Agatha (1890-1976): English writer of detective fiction. Her two detectives are Miss Marple and Hercule Poirot. Play *Mousetrap* has run in London for over four decades.

Churchill, Sir Winston (1874-1965): British statesman, soldier and author. Prime Minister and Minister of Defence 1940-45; Prime Minister, 1951-55. Nobel Prize for Literature.

Cicero, Marcus Tullius (106-43 B.C.): Roman orator, statesman, executed by Antony.

Clemenceau, Georges (1841-1929): French statesman who was premier twice. Led the French delegation at the Versailles peace conference.

Cleopatra (69-30 B.C.): Egyptian queen. Became joint ruler, with brother Ptolemy XII, at age of 17; was wife of Julius Caesar and later mistress of Mark Antony. Committed suicide.

Clinton, William Jefferson (b. 1946): Dynamic Democrat leader who became 42nd U.S. President (Jan. '93). Re-elected Nov. '96. Autobiography *My Life* a best seller.

Clijsters, Kim (b.1983): Belgian World No.2 tennis star. To retire in 2007.

Cockerell, Christopher (1910-1999): English inventor of the hovercraft.

Coleridge, Samuel Taylor (1772-1834): English poet, critic and philosopher.

Colette (1873-1954): French novelist whose early works were published under her first husband's pseudonym, Willy.

Collins, Lt. Col. Eileen (b.1956): The first female to take over the controls of a NASA spaceship.

Collins, Wilkie (1824-'89): British novelist, who collaborated with Charles Dickens. *The Woman in White*, *The Moonstone*.

Columbus, Christopher (c.1451-1506): Italian explorer known as the discoverer of the Americas. In 1492 discovered the Bahamas, Cuba, and other West Indian Islands.



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try.

Dalai Lama (b. 1935): (Tenzing Gyatso)

Spiritual leader of Tibet. Fled to India after Tibetan uprising, and established Govt-in-

exile at Dharamsala in Himachal Pradesh, India (1959). Nobel Peace Prize (1989).

Dam, Henrik (1895-1976): Danish bio-

chemist who discovered vitamin K. Nobel Prize.

Darmen, Father Joseph (1840-'89):

Originally Joseph de Veuster, Belgian Catho-

lic missionary. Worked until his death from

leprosy in leper colony on Molokai, Hawaii.

Dante Alighieri (1265-1321): Italian

poet. *The Divine Comedy*.

Dange, Shripat Amrit (1899-1994):

Leader of Communist Party of India, parlia-

mentarian.

Darius I (548-486 B.C.): Persian king

and founder of Persopolis.

Darwin, Charles Robert (1809-'82):

English naturalist who argued that the evo-

lution of present-day morphology had been

built up by the gradual and opportunistic

mechanism of natural selection. On the Ori-

gin of Species.

Daudet, Alphonse (1840-1897):

French short-story writer and novelist whose

first novel was written at age 14. *Monday*

Tales, The Nabob.

Davis, Bette (1908-'89): Originally Ruth

Elizabeth Davis. American film actress.

Davis, Dwight F. (1879-1945): Ameri-

can who donated the tennis trophy. Davis

Cup. He played for the US team in the open-

ing contest.

Davy, Sir Humphry (1778-1829): Brit-

ish chemist and inventor of the Davy miner's

safety lamp.

De Mille, Cecil (1881-1959): American

film producer-director. Grand old man of

Hollywood. *The Ten Commandments*.

De Quincey, Thomas (1785-1859): En-

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De Sica, Vittorio (1901-'74): Italian film

director and actor. *Shoeshine, Bicycle Thieves*.

Defoe, Daniel (1660-1731): English po-

litical writer, also author of Robinson Crusoe.

Demosthenes (384-322 B.C.): Greek

orator who roused the Athenians to resist the

growing power of Philip of Macedon.

Deodhar D.B. (1892-1993): The Grand

Old Man of Indian Cricket, after whom

Deodhar Trophy is named.

Desai, Bhulabhai (1877-1946): Indian

national leader who defected Bardoli peas-

ants before Broomfield committee. Founded

Swadeshi Sabha to boycott foreign goods.

Desai, Lord Meghnad (b. 1940): Pro-

fessor of Economics at London School of Eco-

nomics. British peer.

Desai, Mahadev (1892-1942): Free-

dom fighter. He was personal secretary to Ma-

hata Gandhi. Edited *Independent* and

Navivan.

Desai, Morarji Ranchodji (1896-

1995): Indian politician who was Prime Min-

ister from Mar. '77 to July '79. Staunch

Gandhian. Chief Minister of Bombay (1952-

'56). Union Minister, 1956-63. Deputy P.M.

& Finance Minister, 1967-69. Bharat Ratna.

Descartes, Rene (1596-1650): French

mathematician, pioneer of modern

philosophy.

Deshpande, Purushottam Lakshman

(1919-2000): Veteran Marathi writer and

performer known as Pu La.

Deve Gowda, Hardanahalli Dodde-

gowda (b. 1933): Janata Dal leader. India's

PM June '96 to Apr. '97. Formerly CM of

Karnataka.

Dev, Ashapurna (1909-'95): A legend

in Bengali literature; Gyanpith, 1977. Began

writing at 13. Over 200 books including 152

novels.

Dewey, Melvil (1851-1931): American

library pioneer, originator of Dewey decimal

system of book classification.

Dhawan, Satish (1920-2002): Scientist.

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Desai, Morarji Ranchodji (1896-1995): Indian politician who was Prime Minister from Mar. '77 to July '79. Staunch Gandhian. Chief Minister of Bombay (1952-'56). Union Minister, 1956-63. Deputy P.M. & Finance Minister, 1967-69. Bharat Ratna.

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Dhawan, Satish (1920-2002): Scientist

Director of IIS, Bangalore, Chairman of ISRO. Padma Vibhushan 1981.

Dhyan Chand (1906-'79): Hockey wizard. Olympic gold in Amsterdam 1928, Los Angeles 1932, Berlin 1936. Padmabhushan.

Diana, Princess of Wales (1961-'97): Born Diana Spencer, married Prince Charles of Britain (1981), separated (1992), divorced (1996). Mother of Prince William and Prince Henry. Killed in a car crash.

Dickens, Charles (1812-'70): Popular English novelist of the 19th cent. *David Copperfield, Pickwick Papers, Oliver Twist.*

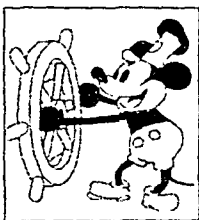
Dickinson, Emily (1830-'86): American poet. Published almost nothing in her lifetime.

Diesel, Rudolf (1858-1913): German engineer, inventor of an internal combustion engine which he patented in 1893.

Dietrich, Marlene (1901-'93): Actress and singer, native of Berlin who flourished in the USA. *Blue Angel.*

Dior, Christian (1905-'57): French fashion designer.

Disney, Walter Elias ('Walt') (1901-'66): American film cartoonist famous for animated cartoons. Creator of characters *Mickey Mouse* (1928) and *Donald Duck* (1936).



Mickey Mouse

Disraeli, Benjamin (1804-'81): British statesman and novelist. Prime Minister, 1868 and 1874-'80.

Dix, Otto (1891-1969): German painter and engraver. Jailed in 1939 for an alleged plot to kill Hitler. Post-war themes included religion.

Donahue, Phil (b.1936): The man who virtually invented the single topic TV talk.

Donatello (1386-1466): Florentine sculptor, a pioneer of the Renaissance style, born Donato di Niccola di Betto Bardi. Fa-

The Youngest at IIT

Chandra Sekar, world's youngest MCSE (Microsoft Certified Systems Engineer) at age 10, was the youngest graduate from Anna University, Chennai who got admission in 2006 to IIT for M-Tech. Sekar, at 15, is India's youngest IIT student.

mous for the marble sculptures of St. Mark and St. George.

Donne, John (1572-1631): One of the great Metaphysical poets. He was chaplain to King James of England, and later Dean of St. Paul's.

Dostoevsky, Feodor Mikhailovich (1821-'81): Russian novelist. Sent to hard labour in Siberia for revolutionary activity. *Crime and Punishment, The Idiot, The Possessed.*

Doyle, Sir Arthur Conan (1859-1930): British writer of detective stories. Creator of detective *Sherlock Holmes* and *Dr Watson.*

Drake, Sir Francis (c. 1540-'96): English seaman; in 1577-'80 he sailed round the world in the "Golden Hind".

Drucker, Peter F. (1909-2005): Management expert and author of international fame.

Dryden, John (1631-1700): Poet laureate and dramatist. *The Indian Emperor, Heroic Stanzas, All for Love.*

Du Pont, Eleuth-Ere Irene (1772-1834): American chemicals manufacturer, b. France.

Dulles, John Foster (1888-1959): US Secretary of State 1953-9, opposed negotiation with Russia.

Dumas, Alexandre (1802-'70): French romantic novelist. *The Three Musketeers.*

Dunant, Jean Henri (1828-1910): Swiss philanthropist. Promoted the establishment of the International Red Cross (1863). Shared the first Nobel Prize (1901).

Duncan, Isadora (1877-1927): American expressive dancer who united free movement with serious music; one of the founders of modern dance.

Dunlop, John Boyd (1840-1921): Scottish veterinary surgeon. Patented (1888) Dunlop version of pneumatic tyre.

Dupleix, Joseph Francois (1697-1763): French Governor in India.

Durant, Will (1885-1981): American historian. *The Story of Civilisation, The Story of Philosophy*.

Dutt, Nargis (1929-'81): The greatest film actress of her time. Paired in several immortal films with Raj Kapoor. Married actor Feroz Dutt, who later became a Union Minister until death in 2005. Best actress award. Padma Bhushan. Nominated to Rajya Sabha. Son Anjay Dutt, a leading Hindi film actor.

Duvalier, Francois ('Papa Doc') (1907-'71): Dictator of Haiti (1957-'71). Used personal police force (Tonton Macoutes).

Dylan, Bob (1941-): US singer and composer, born Robert Allen Zimmerman. *Blowin' on the Tracks*.

Eastman, George (1854-1932): American inventor; manufacturer of photographic equipment.

Eckermann, Johann Peter (1792-1854): German writer who was an assistant to Goethe. *Conversations with Goethe*.

Eckert, John Presper (1919-'95): Co-inventor of the computer. Developed world's first electronic digital computer with John W. Mauchly.

Eco, Umberto (b. 1932): Italian novelist who authored the historical thriller *The Name of the Rose*, and the novel *Foucault's Pendulum*. Also wrote *A Theory of Semiotics*.

Edison, Thomas Alva (1847-1931): American inventor who held more than 1300 U.S. and foreign patents for his inventions: the phonograph, the incandescent lamp, etc.

Ehrenburg, Liya Grigoryevich (1891-

1967): Russian writer whose novel *The Thaw* gave the name to post-Stalin relaxation.

Ehrlich, Paul (1854-1915): German scientist, one of the pioneers of bacteriology.

Eiffel, Alexandre Gustave (1832-1923): French engineer, remembered for Eiffel Tower, Paris and Panama Canal locks.

Einstein, Albert (1879-1955): Mathematical physicist whose theory of relativity superseded Newton's theory of gravitation. His work led on to the making of the nuclear bomb. Nobel Prize, 1921.

Elthoven, Willem (1860-1927) Dutch physiologist. Invented the electrocardiogram. Nobel Prize.

Eisenhower, Gen. Dwight (1890-1969): American general and statesman. He was C-in-C, Allied Forces, N. Africa 1942-3 and in the European theatre of operations 1943-5; Republican President, 1953-61.

Ellot, George (1819-'80): Pen-name of English woman novelist Mary Anne (later Marion) Evans. *Middlemarch*.

Ellot, Thomas Stearns (1888-1965): English Poet and critic, born in U.S. *The Waste Land, Murder in the Cathedral*. Nobel Prize.

Elizabeth II (b. 1926): Queen of Gt. Britain and N. Ireland; ascended the throne, 1952.

Ellington, Edward Kennedy ('Duke') (1899-1974): American pianist, composer.

Ellis, Havelock (1859-1939): English psychologist and writer. *Studies in the Psychology of Sex* (7 vols; 1898-1928).

Ellsworth, Lincoln (1880-1951): American engineer, the first to fly over Antarctica (1935).

Emeneau, Prof. Murray Branson (1904-2005): Western Indologist.

Empedocles (c. 490-430 B.C.): Greek philosopher who held that all matter was composed of four ingredients - fire, air, water and earth. Only 500 lines from two of his poems remain of his writing.

Engels, Friedrich (1820-'95): German

socialist, lifelong friend of Karl Marx, with whom he wrote the *Communist Manifesto*.

Erasmus, Desiderius (1466-1536): The greatest humanist and scholar of Dutch Renaissance. Praise of Folly.

Euripides (480-406 B.C.): The greatest of the Greek dramatists, who wrote about 80 plays. *Trojan Woman*, *Alcestis*, *Medea*.

Evert, Chris (b. 1954): of USA. One of the all-time greats in tennis. Won 20 championships from 1974 to 1986, and 157 tournament titles.

Fahrenheit, Gabriel Daniel (1686-1736): German physicist who introduced the mercury thermometer and fixed thermometric standards.

Falk, Lee (1912-'99): Creator of the popular cartoon characters *Mandrake the Magician* and the *Phantom*.

Falloplo, Gabriele (1523-'62): Italian anatomist, discovered Fallopian tubes, leading from ovaries to the uterus, in which fertilisation takes place.

Faraday, Michael (1791-1867): English physicist who founded the science of electromagnetism.

Farah, Nuruddin (b. 1945): Somali novelist, and a major writer of Africa.

Faulkner, William (1897-1962): American novelist, whose series of novels (*The Sound and the Fury*, etc.) depict the American South. Nobel prize, 1949.

Fawkes, Guy (1570-1606): English conspirator. Served with Spanish armies in Netherlands. Involved in Gunpowder Plot (Nov.5, 1605) to blow up Houses of Parl. Executed.

Fazal, Abul (1561-1602): Prime Minister of Akbar the Great. Scholar, Wrote *Ain-i-Akbari* and *Akbarnama*.

Federer, Roger (b.1982): Switzerland, Tennis champion at 24. Won fourth successive Wimbledon in 2006. Eight Grand Slam titles, 39 tournament wins.

Fellini, Federico (1920-'93): Great Italian film maker. Five-time Academy Award

99 Per cent Perspiration

Thomas Edison was the first person to assemble a team of scientists to carry out research work. A prolific inventor, he is best known as the pioneer of sound recording. According to him, genius is one per cent inspiration and 99 per cent perspiration.

winner. *La Strada* (1954), *La Dolce Vita* (1959), *8 1/2* (1963).

Fermi, Enrico (1901-'54): Pioneering scientist who discovered over 400 radio isotopes. Element number 100 is named Fermium after him.

Fielding, Henry (1707-'54): English author known for *Tom Jones* (1749).

Fischer, Bobby (b. 1943): World Chess Champion, 1972-75.

Fitzgerald, Edward (1809-'83): English poet and translator. Translated *The Rubaiyat of Omar Khayyam* (1859).

Flaubert, Gustave (1821-80): French novelist, leading exponent of French realism. *Madame Bovary*.

Fleming, Sir Alexander (1881-1955): British bacteriologist and discoverer of penicillin (1928). Nobel Prize (1945).

Flinders, Mathew (1774-1814): English explorer who charted large parts of the land he named Australia. Flinders River, Flinders Island named after him.

Fonda, Henry (1905-'82): US actor who became a Hollywood star. Won Academy Award in '82 for *On Golden Pond*. Daughter Jane and son Peter joined films.

Ford, Gerald R (b. 1913): American Republican President, 1974-77.

Ford, Henry (1863-1947): Pioneer (American) motor car manufacturer and in-

s exhibited across the world. *The Prophet*, *the Madman*, *Jesus-the Son of Man*.

Gide, Andre (1869-1951): French writer of short novels. *The Counterfeiters*.

Gielgud, Sir John (b.1904-2000): One of the century's great classical actors and the best speaker of Shakespearean verse in the history of theatre. Acted even at 90.

Giri, Varahagiri Venkata (1894-1980): Third Vice-President and fourth President of India. Veteran trade unionist. Bharat Ratna, '75.

Gish, Lillian (1896-1993): American silent film actress whose career spanned 8 decades. Sister Dorothy Gish (1898-1968), also actress.

Gladstone, William Ewart (1809-'98): British Liberal statesman. Prime Minister four times between 1868 and 1894.

Goebbels, Paul Joseph (1897-1945): Nazi propaganda minister; orator.

Goethe, Johann Wolfgang von (1749-1832): German poet and thinker. *Faust*.

Gokhale, Gopal Krishna (1866-1915): Indian statesman whom Gandhi regarded as his political guru. Founded Servants of India Society (1905).

Goldberg, Whoopie (b.1956): Actress-mediante. *The Colour Purple*.

Golding, Sir William (1911-'93): English novelist. First novel *The Lord of the Flies*. Nobel Prize.

Goldsmith, Oliver (1728-'74): Irish poet, dramatist and novelist. *The Vicar of Wakefield*.

Gombu, Nawang (b. 1936): Mountaineer who climbed Everest twice. Padma Shri, Padma Bhushan.

Goodyear, Charles (1800-'60): American inventor who discovered the art of vulcanising rubber.

Gopalakrishnan, Adoor (b. 1941): Outstanding Indian script writer and film director. Four times winner of National Award for Best Director. Phalke Award 2004.

Swayamvaram, *Mathilukal*, *Kathapurushan*, *Nizhal Kuthu*.

Gorbachev, Mikhail (b. 1931): Soviet leader largely responsible for the political transformation in Eastern Europe in '89. Policy of 'glasnost' and 'perestroika'. The Soviet Union broke up and Gorbachev resigned ('91) Nobel Prize for Peace, '90.

Gorky, Maxim (1868-1936): Russian writer. *Mother*.

Grace, William Gilbert (1848-1915): Cricketer who captained England 13 times. Scored over 54,000 runs including 126 centuries. Over 2800 wickets.

Graf, Steffi (b. 1969): German tennis legend. The third woman in tennis history to win all four major world tournaments - the Australian Open, French Open, Wimbledon and the US Open - in a single calendar year (1988). She also won the Olympic gold medal that year. Won 22 Grand Slam titles and 107 WTA titles. Retired Aug. 99. Wife of Andre Agassi.

Graham, Billy (b. 1918): Most celebrated U.S. evangelist of the 1960's and 1970's.

Graham, Katharine (1917-2001): Influential American newspaper proprietor, who as publisher of *The Washington Post* presided over the decision to go public with the Pentagon papers and Watergate. Pulitzer for her memoirs *Personal History*.

Graham, Martha (b.1893-1991): American dancer, teacher and choreographer of more than 140 works.

Greene, Graham (1904-'91): English novelist and journalist. *The Power and the Glory*.

Grant, Cary (1904-86): American film star born in Britain as Archibald Leach. *Girl Friday*, *North by Northwest*.

Grass, Gunter Wilhelm (b. 1927): German novelist, poet and playwright. *The Tin*



Adoor Gopalakrishnan

rum, Dog Years, The Call of the Toad. Nobel Prize. Revealed in Aug. '06 that he had served Nazi elite force Waffen-SS.

Green, Maurice (b.1974): First sprinter ever to win both 100 and 200m. at world championships.

Gregory XIII (1502-'85): Pope (1572-'85) who introduced the Gregorian calendar.

Guevara, Ernesto 'Che' (1928-'67): Latin American revolutionary who took part in the Cuban guerrilla war and became a minister in Cuba 1959-65.

Gujral, Inder Kumar (b. 1919): Prime Minister of India from Apr. 21, 1997 to Nov. 1997 and caretaker PM until Mar. 98. Formerly Union Cabinet from '67 to '76 and '89-'90. Minister of External Affairs and Ambassador to USSR.

Gundert, Dr. Herman (1814-'93): A linguist of Germany who lived in India, where he learnt 18 local languages and compiled a Malayalam dictionary.

Gupta, Maitihill Saran (1886-1964): National poet of India, and one of the makers of modern Hindi literature. *Bharat Bharati*. Adma Vibhushan.

Gutenberg, Johann (1400-'68): German inventor who invented printing with movable types cast in moulds.

Haffkine, Waldemar (1860-1930): First Director of Plague Research Laboratory, Bombay later renamed The Haffkine Institute.

Hahn, Otto (1879-1968): German chemist, chief discoverer of nuclear fission, in which the atom bomb is based. Nobel Prize, 1944.

Halle Selassie I (1891-1975): Emperor of Ethiopia, 1930-74. Deposed in 1974.

Haldane, J.B.S. (1892-1964): British biochemist and geneticist. He emigrated to India in 1957.

Hammaraskjold, Dag (1905-'61): Swedish diplomat. Secretary-General of the United Nations, 1953-61. Killed in an air crash. Nobel Peace Prize, 1961.

Indian and African Elephants

The Indian elephant has smaller ears than its African cousin, and also has a higher forehead. The end of an Indian elephant's trunk has only one 'finger'. The African has two.

Hannibal (247-182 B.C.): Carthaginian general who fought two wars against Rome. Regarded as the greatest general of antiquity.

Hardy, Thomas (1840-1928): English novelist and poet, sometimes called the 'last of the Victorians'. *Far from the Madding Crowd*.

Harris, Joel Chandler (1848-1908): American author of the *Uncle Remus* stories.

Harris, Paul (1868-1947): American who founded Rotary International in 1905.

Harvey, William (1578-1657): English physician who discovered the mechanics of the circulation of blood, 1616.

Hauptmann, Gerhart (1862-1946): German writer whose play *Vor Sonnenaufgang* marked the birth of German naturalist drama. Nobel Prize 1912.

Havel, Vaclav (b.1936): Dramatist who became President of Czechoslovakia (1989) and President of the Czech Republic. *The Garden Party*.

Hawking, Stephen (b. 1942): British astrophysicist, widely regarded as the greatest physicist since Einstein. Victim of a degenerative nerve disease. He can communicate only through a computer, attached to his motorized wheelchair. *A Brief History of Time, Black Holes and Baby Universes*.

Hayek, Friedrich August Von (1899-1998): British economist. Taught at London, Chicago and Freiburg - Nobel Prize for Economics, 1974.

Hayek, Salma (b. 1966): Mexican big-screen siren. Oscar-nominated. Ranked by *Time* magazine as the second-richest Latin American in Hollywood.

Hazarika, Dr. Bhupendra Kumar (b. 1926): Renowned film-maker and composer of lyrics and music. Phalke Award, '93.

Hearst, William Randolph (1863-1951): A dominant figure in American journalism; built vast publishing empire.

Heath, Edward (b. 1916): British Prime Minister, 1970-74.

Hedgewar, Keshavrao Baliram (1889-1940): Founder of Rashtriya Swayamsevak Sangh.

Hegel, Georg Wilhelm Friedrich (1770-1831): German idealist philosopher: the dialectic method of reasoning. *The Science of Logic*.

Hemingway, Ernest (1898-1961): eminent American novelist of new technique and wide influence. *The Sun Also Rises*, *The Old Man and the Sea*. Nobel Prize, 1954.

Hendry, Stephen (b. 1970): The greatest snooker player of all time. World Champion six times.

Henry, O. (real name William Sydney Porter) (1862-1910): Master story-teller. *The Gift of the Magi*.

Hensen, Victor (1835-1924): The German physiologist who first used the name plankton to describe the organisms that live suspended in the sea.

Heracitus (554-483 BC): Greek philosopher. His sayings: 'All things change'; 'You cannot step into the same water twice'.

Herge (Georges Remi) (1907-83): World famous author of Tintin cartoon series.

Herodotus (c. 485-425 B.C.): Greek historian, 'the father of history'.

Heyerdahl, Thor (1914-2002): Norwegian scientist and adventurer, best known for his voyage aboard the Kon-Tiki raft.

Hidayatullah, Mohammed (1904-'92): Jurist who was Chief Justice and later Vice-President of India, 1979-84.

Hill, Sir Rowland (1795-1879): Originator of the penny postal system.

Hillary, Edmund (b. 1919): New Zealand explorer, the first to climb Mount Everest in 1953.

Hipparchus (2nd cent.BC): Greek astronomer. Founder of systematic astronomy.

Hippocrates of Cos (c. 430 B.C.): Greek physician, called the Father of Medicine.

Hirohito (1901-89): 124th Emperor of Japan, (1926). Renounced his legendary divinity in 1946.

Hitchcock, Alfred (1899-1980): British-American film director, 'the master of suspense'. *Vertigo*, *Psycho*, *The Birds*.

Hitler, Adolf (1889-1945): Austrian-born German dictator. Reich Chancellor in 1933 and Fuhrer in 1934; All his opponents were persecuted and murdered.

Hsuen-Tsang (7th c.): Buddhist pilgrim from China who visited India, 629 to 644 A.D.

Ho Chi Minh (1890-1969): Vietnamese revolutionary leader and the first President of North Vietnam (1954-69).

Hobbes, Thomas (1588-1679): English philosopher who wrote *Leviathan*.

Hodgkin, Dorothy (1910-94): Nobel Prize winner (Chemistry) who founded Pugwash Conference on nuclear weapon. Determined the structure of penicillin, insulin and Vitamin B₁₂.

Hofmann, Albert (b.1906): Swiss chemist who discovered the now-banned hallucinogenic drug LSD.

Homer (c. 700 B.C.): Epic poet. He is supposed to have been a Greek. *The Iliad*, *The Odyssey*.

Honecker, Erich (1913-'94): The stolid Marxist who ruled East Germany for 18 years until people's uprising swept him aside in Oct. 89.

Hope, Bob (orig. Leslie Townes Hope) (1903-2003): Great American entertainer. Has 54 honorary doctorates.

Houdini, Harry (1874-1926): Pseudonym of Erich Weiss. American escapologist.

Hughes, Howard (1905-'76): US industrialist, financier, movie maker.

Hugo, Victor (1802-'85): French poet, dramatist, and novelist. *Lucrece, Les Miserables*.

Hume, Allan Octavian (1829-1912): Born in London, worked in India. Founded Indian National Congress in 1885.

Hume, David (1711-76): Scottish philosopher and historian.

Hussain, Dr. Zakir (1897-1969): Second Vice-President and third President of India ('67-'69). Nationalist, educationist. Bharat Ratna.

Hussain, Maqbool Fida (b. 1915): Leading Indian artist. Member, Rajya Sabha, '86. Padma Bhushan, Padma Vibhushan.

Huxley, Aldous (1894-1963): English novelist. Grandson of T. H. Huxley (1825-95, biologist-educator, ardent evolutionist), brother of Julian Huxley (1887-1975, biologist and writer, first D-G of UNESCO), and grandnephew of Mathew Arnold. *Brave New World*.

Huygens, Christiaan (1629-'95): Dutch mathematician. Invented pendulum clock.

Iacocca, Lee (b. 1924): American management wizard of Italian origin. Headed Ford Motor Company, and later Chrysler Corporation.

Ibsen, Henrik Johan (1828-1906): Norwegian playwright and poet. 'the father of modern drama'. *Ghosts, A Doll's House*.

Ilaiyaraaja (b. 1943): Superstar of Indian film music. Music director of nearly 700 films.

Inonu, Ismet (1884-1973): Turkish leader, president ('38-'50), PM twice between 1923 and '65.

Iqbal, Muhammad (1877-1938): The greatest 20th century Indian poet to write in Urdu. *The Secrets of the Self, The Song of Birds*.

A Portrait

The first person portrayed on a postage stamp was Queen Victoria I. It was a profile based on an effigy by William Wyon in 1837, when Victoria was only 18. The profile was used for the Penny Black and Two pence Blue of 1840. It remained in use throughout the next 62 years.

nity. Author of the famous line 'Sare jahan acha yeh hindustan hamara'.

Isinbayeva, Yelena (b. 1982): The undisputed queen of women's pole vault, the first female, from Russia, to cover five metres. She says she is chasing men's pole vault legend Bubka's total of 35 world records.

Ivan the Terrible (1530-'84): Crowned as the first Tsar of Russia in 1547; an autocratic ruler.

Iyer, Semmangudi Srinivasa (1902-2003): Great musician (Carnatic) of India. Padma Vibhushan.

Iyer, Ulloor S. Parameswara (1907-1949): Indian poet (Malayalam), educationist.

Jackson, Michael Joe (b. 1958): The late black American singer and actor. His has grown into a legend. *Thriller* (sales 47 m), *Dangerous*, *Romance*.

Jackson, Rev. Jesse (b. 1928): African American civil rights leader.

Jagger, Mick (b. 1943): Lead singer of The Rolling Stones.

Jailoun, Tahar (b. 1945): Tunisian poet, novelist, writer.

Jatti, Basappa (b. 1902): Vice President of India. Formerly Chief Minister of Orissa.

Jayadeva (12th c.): Famous Sanskrit poet. *Gita Govinda*.

Jayalalithaa, Jayaram (b. 1948): Indian actress-turned-politician, AIADMK chief and Tamil Nadu CM (91-96, 2002-'06).

Jefferson, Thomas (1743-1826): Third American president (1801-9), author of *The Declaration of Independence*.

Jenner, Edward (1749-1823): English country practitioner who invented vaccination.

Jinnah, Mohammed Ali (1876-1948): Pakistani statesman, who became president of the Muslim League. First Governor-General of Dominion of Pakistan, 1947.

Joan of Arc, St. (Jeanne D'Arc) (1412-17): French patriot and national heroine called the Maid of Orleans; of peasant parentage, she believed herself called to save France from English domination. Captured by the English, she was burned as a heretic, but canonised in 1920.

John Paul II (1920-2005): The first non-Italian Pope in 455 years and the first Polish pope (1978). Formerly Cardinal Karol Wojtyla.

Jonson, Ben (c. 1573-1637): English dramatist and poet who ranks with Shakespeare. *The Alchemist*.

Johnson, Dr. Samuel (1709-'84): English lexicographer, critic and literary figure. Dictionary was published in 1755. *Rasselas*.

Johnson, Lyndon Baines (1908-'73): President of the United States, 1963-'69.

Johnson, Michael (b. 1967): The first man to complete the 200-400 m. double at major international championship.

Joliot-Curie, Jean Frederic (1900-'58) and his wife Irene (1896-1956): French scientists who discovered artificial radioactivity. Nobel prize winners, 1935.

Jones, Sir William (1746-'94): British linguist. Mastered 28 languages.

Jones, Wilson (b. 1922): Twelve-time national amateur billiards champion of India; winner of three world titles.

Jordan, Michael (b. 1963): US basketball player. He played for the Chicago Bulls (1984-93, 1995 -). He announced his retirement in 1999.

Jooss, Kurt (1901-79): Dancer and choreographer of Germany, whose dance dramas combined modern dance with ballet techniques.

Joshi, Pandit Bhimsen Gururaj (b. 1922): Internationally acclaimed Hindustani vocalist, who has led the renaissance of Indian classical music.

Joule, James Prescott (1818-'89): British physicist. Gave his name to the unit measuring energy.

Jung, Carl Gustav (1875-1961): Swiss psychologist, one of the founders of analytical psychology. Worked with Freud.

Jussieu, Bernard de (1699-c.1777): French botanist who devised the system of plant classification based on natural affinities.

Kadare, Ismail (b. 1934): Exiled Albanian writer. Essays, poems and works of fiction. Translated into more than 40 languages.

Kafka, Franz (1883-1924): Czech-born German novelist. *The Trial*, *The Castle*.

Kalam, Dr. Abdul Avul Pakir Jainulabdeen (b. 1931): President of India since July 15, 2002. Former Scientific Adviser to Defence Minister. The man behind India's missile programme. Known for his dedication to science, commitment to professional excellence and simplicity of lifestyle. Bharat Ratna, 1998.



Dr. Abdul Kalam

Kalashnikov, Mikhael (b. 1919): Russian; creator of the famous Kalashnikov rifle (1946).

Kalidasa (c. A.D. 400): India's greatest poet, dramatist and chief figure in classic Sanskrit literature, known as Indian Shakespeare.

Abhigyan Shakuntalam, Kumarasambhava, Meghadoot, Raghuvamsha etc.

Kamalahasan (b. 1954): India's top film actor who won three national awards and 15 Filmfare awards in 37 years. *Appu Raja, Sadma*.

Kamaraj, Kumaraswami (1903-'75): Leader of the Indian national movement; President, Indian National Congress 1963; earlier Chief Minister, Tamil Nadu (1954-'63). Bharat Ratna.

Kane, Pandurang Vaman (1880-1972): Indian indologist, orientalist, social reformer. *History of Dharmasastra*. Bharat Ratna, 1963.

Kanishka (1st or 2nd century C.E.): The greatest ruler of the Kushan dynasty, with his capital at Purushapura or Peshwar. Patronised Buddhism.

Kant, Immanuel (1724-1804): German philosopher. *Critique of Pure Reason*.

Kapil Dev (Nikhil), Kapil Dev (b. 1959): Indian cricket all-rounder, former captain and national team coach. World record of claiming 100 wickets in the shortest time. Achieved the unique double of 4000 runs and 400 wickets, the first ever player to do so. Set world record of 432 wickets in test matches in Feb. 1994.

Kapoor, Raj (1924-'88): Indian film actor, director, producer; one of the greatest entertainers the country has produced. *Barsaat, Awara, Shri 420, Sangam*.

Kapoor, Shekhar (b. 1946): Indian film director. *Bandit Queen, Elizabeth*.

Karant, Shivarama (1902-1997): A literary giant; novels, plays, travelogues, essays, general science encyclopedia. *Chomana Dudi*.

Karat, Prakash (b. 1948): General Secretary of CPI (M) elected 2005. Wife Brinda Karat, first woman Politburo member.

Karnad, Girish Raghunath (b. 1938): Noted Indian playwright, actor and director. Chairman, Sangeet Natak Akademi, (1988-

An Early Car

Henry Ford's Model T Ford car first appeared in 1908. It was particularly attractive to the dispersed rural communities of the American Mid-West. By 1927, more than 15 million Model Ts had been sold.

93). Director, Nehru Centre, London. Gyanpith.

Karpov, Anatoly (b. 1951): Soviet chess champion, 1975-85; the highest-rated player in chess history.

Karthikeyan, Narain (b. 1977): First Indian to drive a Formula One car. Formula Asia Champion, 1996. Secured drive with Jordan for 2005 season.

Karve, Dhondo Keshav (1858-1962): Indian social worker who championed the causes of widow marriage and women's education. Bharat Ratna.

Kasavubu, Joseph (1917-69): First President of Independent Congo, ousted by Joseph Mobutu in 1965.

Kasparov, Garry (b. 1963): Russian chess grandmaster. Highest-rated player in chess history, the youngest-ever world champion in 1985.

Kaunda, Kenneth (b. 1924): Architect of the independence of Zambia and its first president (1964-'91). Freed in June '98 after five months under house arrest on coup plot charges.

Kawabata Yasunari (1899-1972): Japanese novelist, one of the Neo-Impressionists: Works (*Snow Country, The Sound of the Mountain*) are characterised by melancholy and loneliness. Committed suicide. Nobel Prize, 1968.

Kazan, Elia (1909-2003): US film director, born in Turkey. *A Street Named Desire, On the Waterfront*.

Keats, John (1795-1821): Youngest of major poets of the romantic period in English literature. *Odes, Isabella*.

Kelappan, Kizharyoor (1890-1971): Today's leader and social reformer, Kerala.

Keller, Helen (1880-1968): American author and educator of the blind. Deaf and blind when 19 months old. Inspiration to millions of blind and deaf people all over the world. *The Story of My Life*.

Kelly, Grace (1929-'82): American film actress who married Monaco's Prince Rainier and left acting.

Keneally, Thomas Michael (b. 1935): Australian writer. His novel *Schindler's Ark* won the 1982 Booker Prize. It was made into a prize-winning film by Steven Spielberg - *Schindler's List*.

Kennedy, John Fitzgerald (1917-'63): U.S. President (1961-3). Youngest to be elected. A man of vision and courage. Assassinated. Profiles in Courage.

Kenyatta, Jomo (1894-1978): A tall African leader who was the first President of independent Kenya.

Kepler, Johannes (1571-1630): German astronomer and mystic.

Kevorkian, Dr. Jack (b.1928): Pathologist, known as Dr. Death for assisting in suicide of terminally ill patients in pain. Prosecuted.

Keynes, John Maynard (1883-1946): One of the most influential British economists of early 20th century. *The General Theory of Employment, Interest and Money*.

Khalji, Alauddin (1255-1316): Delhi Sultan who came to power by murdering his grandfather and father-in-law. Able and ruthless, gained wealth and treasure by conquests.

Khan, Bismillah (1916-2006): Shehnai player, Ustad from Varanasi, India. Bharat Ratna, 2001.

Khan, Khan Abdul Gaffar (1890-1988): The 'Frontier Gandhi' worked among the Pathans of North West Frontier Province.

Built the Khudai Khidmatgar (Servants of God) movement; opposed partition of India. Bharat Ratna, 1987.

Khan, Liaquat Ali (1895-1951): Leader of the Muslim League (1946) and first premier of Pakistan (1947). Assassinated.

Khan, Mohammed Ayub (1907-'74): Military leader; President of Pakistan, 1958-69.

Khan, Ustad Allaiddin (1862-1972) of Malhar: One of the all-time greats of the century in the Hindustani music tradition.

Khorana, Har Gobind (b. 1922): Born in India, a naturalized citizen of USA. Synthesized the first wholly artificial gene. Shared Nobel prize, 1968.

Khosla, Vinod (b. 1955): Co-founder of Sun Microsystems. One of world's most influential venture capitalists. General Partner at venture capital firm Kleiner Perkins Caufield & Byers.

Khrushchev, Nikita Sergeyevich (1894-1971): The Russian statesman who became the leader of the Soviet Union soon after the death of Stalin. First Secretary 1953-64; PM, 1958-64.

Khusro, A.M. (1925-2003): Indian Agricultural economist who was Chairman of the 11th Finance Commission. Headed Delhi's Institute of Economic Growth. Formerly Member, Planning Commission, Chancellor of AMU, Ambassador to Germany. Editor, *Financial Express*.

Khusro, Amir (1253-1325): The Persian poet of Delhi who is believed to be the father of Sahatara (Sitar). Saw 11 Badshahs and served under 7 sultans.

Kierkegaard, Soren Aabye (1813-'55): Danish philosopher, regarded as the founder of existentialism.

Kilby, Jack S (1924-2005): Inventor of the integrated circuit (commonly called the microchip) that gave rise to the information age. Nobel Prize in Physics.

Kim Woo Choong (b. 1936): The South

tycoon who built the Daewoo Group global empire (\$ 67 billion in annual sales). It crashed and he fled the country, charged of fraud and smuggling, to return in 2005.

King, Billie Jean (b. 1943): American tennis player. Wimbledon champion 5 times in 1978 and 1983; US champion 4 times. 20 titles between 1961 and 1979.

King, Larry (b. 1933): American TV host.

King, Martin Luther, Jr. (1929-'68):

American clergyman, a non-violent civil rights leader and Negro integration leader;

Nobel Peace Prize. Assassinated. *Why We Wait.*

Kingsley, Ben (b. 1944): London-based actor who played the role of Gandhi in Christopher Nuthall's film, *Gandhi*. Oscar nomination.

Kipling, Rudyard (1865-1936): British writer born in Bombay. *Kim*, *Jungle Books*. Nobel prize.

Kissinger, Henry (b. 1923): American foreign policy expert, Secretary of State (1973-76). Known for his 'shuttle diplomacy'. Nobel peace prize (1973).

Kennedy General Lord Horation (1850-1916): C-in-C of Indian Army 1902-07.

Khan, Saifuddin (1888-1963): Associate of Mahatma Gandhi, founder President of the All India Peace Council. Stalin Prize.

Koch, Robert (1843-1910): German physician and bacteriologist who discovered bacillus of tuberculosis. Nobel prize, 1905.

Kohl, Helmut (b. 1930): First Chancellor of united Germany in 1990. Chancellor of West Germany from 1982-'90. Influenced European affairs for two decades.

Kosygin, Alexei Niklayevich (1904-1982): Chairman of the Council of Ministers of USSR (PM) after Khrushchev ('64).

Krishna, Dr. Dwarkanath (1910-'42): Legendary Indian doctor who became the head of the Indian medical mission to war-

The Golden Girl

The first Indian woman to enter an Olympic final (Los Angeles), P.T. Usha clocked her best-ever timing of 55.42 sec. in the 400 m. hurdles, an Asian record, in 1984. She is known as Payyoli Express, Sprint Queen and Golden Girl.

torn China in 1938.

Kramnik Vladimir (b.1975): Of Russia. World Chess Champion.

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Krishan Kant (1927-2002): Vice-President of India (1997-2002). Gandhian and freedom fighter. Rajya Sabha, '66-'77. Lok Sabha, '77. Governor, A.P. for 7 years.

Krishnamurthy, Jiddu (1895-1986): Indian philosopher of international reputation. At 20, he headed a new sect 'The Order of the Star of the East'. *The Songs of Life*.

Krishnamurthy, Kalki (1899-1954): Tamil novelist, short story writer and music critic.

Kruger, Paul (1825-1904): South African statesman. Secured independence of Transvaal, of which he was president four times. Resisted spread of British influence.

Krupp, Alfred (1812-'87): German armaments magnate.

Kublai Khan (1216-'94): The first Mongol emperor of China. Extended Mongol empire by conquest and lived in unparalleled splendour.

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Kumar, Dillip (b.1922): Top matinee idol of India. *Andaz, Devdas, Mughal E Azam, Pehli Kadam*. Phalke award.

Kundera, Milan (b. 1929): Czech novelist. *The Unbearable Lightness of Being*.

Kurien, Dr. Verghese (b. 1921): 'Father of India's white revolution', a synonym for co-operative milk sector. The brain behind Operation Flood. Chairman, NDDB until 1998. World Food Prize ('89), Magsaysay award ('63), Padmavibhushan.

Kurosawa, Akira (1910-'98): Japan's greatest filmmaker, creator of such classics as *Rashomon* and *The Seven Samurai*.

La Fontaine, Jean De (1621-'95): French poet of the Fables and author of stories in verse.

Laden, Osama bin (b. 1957): Saudi Arabian millionaire - 'most wanted' in several terrorist attacks. Prime suspect in the destruction of WTC, New York.

Lahiri, Jhumpa (b.1967): Writer of Indian origin. Won Pulitzer Prize (2000) for *The Interpreter of Maladies: Stories of Bengal, Boston and Beyond*.

Lakshmi Bai, Rani of Jhansi (1835-'58): Queen of Jhansi, a brave warrior who took active part in the first war of Indian independence.

Lao Tze (c. 600 B.C.): Chinese philosopher who founded Taoism.

Laski, Harold Joseph (1893-1950): British political scientist, influential Fabian. Taught at London School of Economics.

Laxman, Rashipuram Krishnaswami (b.1927): Outstanding Indian cartoonist. Magsaysay award, 1984.

Lay, Kenneth (1942-2006): Founder, chairman and CEO of Enron, the giant energy company which collapsed. He was convicted of fraud and conspiracy, died while awaiting sentencing.

Le Carre, John (pen-name of David John Moore Cornwell (b. 1931): English writer of thrillers, who had been a diplomat.

The Spy Who Came In From The Cold.

Le Corbusier (1887-1965): Pseudonym of architect Charles Edouard Jeanneret. Born in Switzerland, became a French citizen in 1930. Architect of Chandigarh (India).

Leakey, Louis Seymour Bazett (1907-'72): Kenyan-born British archaeologist and anthropologist, and Mary Douglas Leakey (1913), English archaeologist. Made several important discoveries about men's origins in East Africa. Their son Richard Leakey (b. 1944) is another renowned archaeologist of Kenya.

Lebrun, Albert (1871-1950): A minor engineer who became the last President of France's Third Republic.

Lee, Harper (b.1926): Pulitzer Prize winning author of *To Kill a Mockingbird*. Enigmatic recluse never published another book.

Leigh, Vivien (1913-'67): British actress who won Oscar in 1940 for *Gone With The Wind* portraying *Scarlett O'Hara*.

Lendl, Ivan (b. 1960): Tennis player born in Czechoslovakia. Former world No. 1.

Lenin (Vladimir Ilyich Ulyanov) (1870-1924): Russian revolutionary leader and statesman who liberated the country from the Tsars (1917). Then headed the Soviet government until his death.

Leonardo da Vinci (1452-1519): Great genius, one of the master artists of the high Renaissance. Italian. Man of science who was painter, architect, philosopher, poet, composer, sculptor, athlete, mathematician, inventor, and anatomist. *Last Supper* and *Mona Lisa*.

Lesseps, Ferdinand (1805-'94): French engineer who built the Suez Canal in 1869.

Lewis, Carl (b. 1961): American winner of 8 Olympic gold medals and former 100 m. world record holder. In 1984 he won four Olympic gold medals.

Lie, Trygve (1896-1968): Norwegian politician who became the first U.N. Sec.-Gen. ('46-53).

Lincoln, Abraham (1809-'65): Six-

teenth president of USA (1861). Formed Republican party in 1856 to oppose slavery. Assassinated.

Lippmann, Walter (1889-1974): American journalist of influence. His column was carried world-wide.

Liszt, Franz (1811-'86): Hungarian-French composer. Debut at age 11. *Transcendental Etudes, Paganini Etudes, A Faust Symphony*.

Livingstone, David (1813-'73): Scottish missionary and explorer in Africa. He discovered the course of the Zambezi, the Victoria Falls and Lake Nyasa (now Lake Malawi).

Lloyd Webber, Andrew (b. 1948): British composer. Rock opera *Jesus Christ Superstar*. *Cats*, the longest running musical ever in London and New York.

Lloyd-George, David (1863-1945): British statesman and author of modern British social welfare legislation. PM 1916-'22.

Locke, John (1632-1704): English philosopher. *An Essay Concerning Human Understanding*.

Lohia, Dr. Ram Manohar (1910-'67): Indian socialist, Member of Parliament, writer.

London, Jack (1876-1916): American writer known for short stories and adventure tales. *Call of the Wild*.

Longfellow, Henry Wadsworth (1807-'82): American poet. *The Golden Legend, Hiawatha*.

Lopez, Jennifer (b. 1970): American singer and actress of Puerto Rican parentage. Highest-paid Latina actress in Hollywood history. Her debut album *'On the 6'* was a major hit with the infectious single "If you had my love".

Loren, Sophia (b. 1934): Italian actress, two Oscars. *Two Women, Millionairess*.

Lorenz, Konrad (1903-1989): Zoologist from Austria, Co-founder of modern ethology. Authored *On Aggression*. Shared Noble Prize, 1973.

As Big as a Head of State

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Loreton, Erhard (b. 1959): The Swiss mountaineer who is the third man to have climbed world's 14 highest peaks.

Louis XIV (1638-1715): King of France. Longest reign (61 years). A despotic ruler, dominated the Europe of his day. His exhausting wars weakened France.

Lovelock, James (b. 1919): Creator of the field of Geophysics, responsible for much of our environmental consciousness.

Loyola, St. Ignatius of (1491-1556): Spanish founder of the Society of Jesuits, a missionary order.

Lumumba, Patrice (1925-'61): Congolese politician. Premier at Independence. Civil war resulted in his murder.

Luther, Martin (1483-1546): German religious reformer who began the Protestant Reformation.

Lutyens, Sir Edwin (1869-1944): English architect; City plan of New Delhi, viceroy's house, British Embassy in Washington and Roman Catholic cathedral of Liverpool.

Luxemburg, Rosa (1871-1919): Polish born German revolutionary and socialist theorist.

Lynch, Peter (b. 1944): America's leading money manager, financial consultant. *One Upon Wall Street, Beating The Street*.

Kumar, Dillip (b.1922): Top matinee idol of India. *Andaz, Devdas, Mughal E Azam, Deedar*. Phalke award.

Kundera, Milan (b. 1929): Czech novelist. *The Unbearable Lightness of Being*.

Kurlen, Dr. Verghese (b. 1921): 'Father of India's white revolution', a synonym for co-operative milk sector. The brain behind Operation Flood. Chairman, NDDB until 1998. World Food Prize ('89), Magsaysay award ('63), Padmavibhushan.

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John Loudon (1756-1836): Director of the 'macadamising' system of road repair.

MacArthur, Douglas (1880-1964): US Army chief of staff. In WWII, he received the Medal of Honor for his role in the surrender in Sept. 1945. Active role in Korean war. Differed with President H. Truman ended his career.

Macaulay, Thomas Babington (1800-1860): English historian, poet and Indian civil servant. Reformed the Indian education system. *History of England*.

Macbride, Sean (1904-88): Irish statesman, Chief of Staff of IRA, founder of Irish Republican Party, external affairs minister, first chairman of Amnesty International (1961-65). Nobel Peace Prize, 1974.

Machel, Samora (1933-86): Mozambique politician, first President, died in air crash. His widow Graca married Nelson Mandela.

Machiavelli, Niccolo (1469-1527): Italian writer and diplomat. Name associated (erroneously?) with immorality and despotism in politics. *The Prince*.

Madhavacharya (1238-1317): Exponent of Dvaita philosophy; wrote commentaries on Gita, interpreted Upanishads in a new way.

Madonna (Madonna Louise Veronica Ciccone) (b. 1958): World's number one female pop star with over 80 m. albums sold and more consecutive top hit singles than the Beatles; a self-made icon. Italian American.

Magellan, Ferdinand (c. 1480-1521): Portuguese navigator, and commander of the first expedition (1519) to circumnavigate the globe.

Mahalanobis, Prasanta Chandra (1893-1972): Economist and statistician, who contributed to laying the foundation of India's statistical system and economic planning.

Mahapatra, Kelucharan (1926-2004): Exponent of Odissi dance. Trained and produced two generations of world-class dancers.

Mahapatra, Sitakanta (b. 1937): Oriya poet. IAS officer, Gyanpith award.

Maharaj, Pandit Birju (b. 1937): Eminent Kathak dancer. Padma Vibhushan in 1986.

Mahavira, Vardhmana (6th cent. B.C.): Indian. Founder of Jainism, which teaches the sacredness of all life.

Mahesh Yogi, Maharishi (b. 1917): Immensely rich Indian Yoga expert. Transcendental Meditation movement in 1959. Founder of the Maharishi University of Management.

Mahmood, Talat (1924-1998): Celebrated ghazal and playback singer. Lifetime Mangeskar award 1995.

Makarios III (1913-'77): Archbishop of the Greek Orthodox church and Cypriot national leader. President of Cyprus 1960.

Malaviya, Madan Mohan (1861-1946): Indian patriot, national leader and social reformer. Founder of Hindu Mahasabha (1906) and Banaras Hindu University (1916).

Malcom X (1925-'65): Born Malcolm Little, also known as El Hajj Malik El-Shabazz. US black militant leader who preached black people must create a separate society by violence, if necessary. Assassinated.

Malinowski, Bronislaw (1884-1942): of Poland. Father of social anthropology.

Malleswari, Karnam (b. 1976): Indian weight-lifter. First Indian woman to win Olympic medal (bronze, Sydney). Rajiv Gandhi Khel Ratna Award.

Malthus, Thomas Robert (1766-1834): British economist who contended that population increases faster than the means of subsistence and that its growth could only be checked by moral restraint, by disease and war.

Mandela, Nelson Rolihlala (b. 1918): First black President of South Africa (1994-2009).

prisoned for about 27 years (1964-1990) for fighting apartheid. Under his leadership, South Africa became a non-racist democracy. Bharat Ratna, 1990. Nobel Prize, '93. *Long Walk to Freedom*.

Manessier, Alfred (1912-'93): One of France's greatest abstract artists; also a master of tapestry and stained glass.

Mangeshkar, Lata (b. 1929): Melody queen of India. Most prolific playback singer active for half a century. Phalke award, Rajiv Gandhi bhavana Award, Bharat Ratna (2001).

Mani, Ehsan (b. 1945): Pakistani, the 1st President of ICC.

Manin, Daniele (1804-57): Italian patriot who was imprisoned for opposing Austrian rule of his town Venice. After the Revolution (1848) he became President of the new Venetian Republic.

Manohar, Sujata Vasant (b. 1934): India's second woman judge of Supreme Court. (The first-Fathima Beevi).

Mansingh, Sonal (b.1944): Started Centre for Indian Classical Dances (1977). First woman to learn Chhau dance.

Mao Zedong (1893-1976): Architect of the Chinese Revolution and founder of the People's Republic of China. Experiments include 'Communes', the 'Great Leap Forward' and the 'Cultural Revolution' (65-69). Writings have influenced revolutionary thinking.

Mappillai, K. C. Mammen (1873-1953): Eminent journalist, social worker and community leader of India (Kerala). He was influenced and inspired by his uncle Kandathil Varghese Mappillai, a renowned litterateur, who in 1888 founded *Malayala Manorama*, India's first language daily to sell over a million copies. Mammen Mappillai's son K.M. Mathew (Padma Bhushan '98) is its present Chief Editor.

Maradona, Diego (b. 1961): Argentinian football star. Famous for the 'hand of God' goal against England in 1986. Banned for 15 months for drug problems.

A Film-maker's Income

How much does film director Steven Spielberg earn in a minute?

342 dollars.

Marceau, Marcel (b.1923): The Picasso of the mime. *Bip*, his celebrated mime creation.

Marconi, Guglielmo (1874-1937): Italian inventor who developed the use of radio waves as a means of communication. Nobel Prize.

Marggraf, Andreas Sigismund (1709-82): German chemist. His discovery of beet sugar led to the development of the sugar industry.

Marie Antoinette (1755-'93): Queen of France, wife of Louis XVI; accused of treason, beheaded in the French Revolution.

Marlowe, Christopher (1564-'93): English dramatist and precursor of Shakespeare. *Dr. Faustus*, *Tamburlaine*.

Marquez, Gabriel Garcia (b.1928): Colombian writer and poet. Nobel Prize, 1982. *One Hundred Years of Solitude*.

Marshall, George Catlett (1880-1959): U.S. Secretary of State (1939-'45). Known for the Marshall Aid plan for European reconstruction. Nobel prize for peace (1953).

Marti, Jose (1853-95): Cuban leader of the independence struggle; poet.

Martin du Gard, Roger (1881-1958): French novelist known for his 8-novel series *Les Thibault* dealing with family life in early 20th century. Nobel Prize, 1937.

Martin, Ricky (b.1971): Latino pop singer, a member of Menudo, the Puerto Rican boy band.

Marx, Karl (1818-'83): Great German socialist thinker. With friend Engels wrote the *Communist Manifesto* (1848). Father of modern international communism. *Kapital*.

oo (1906-'98): Politician. tra Party.

Dr. R.A (b. 1943): Director of CSIR. Elected Fellow of the in 1998.

(1876-1917): (Margarethe le) Dutch spy. A dancer in Paris vers, she became a German spy t for treason.

Dr. John (1886-1959): Economist and educationist. Union nister, V-C of Bombay and Kerala es. Padma Vibhushan.

ernich, Klemens Wenzel um Lothar (1773-1859): Austrian an. As Foreign Minister, helped form adruptle Alliance which defeated Na-

upassant, Guy De (1850-'93): h author, one of the masters of the short y. *La Parure* (The Necklace).

Mauresmo, Amelle (b.1979): First nch women in 81 years to win Wimbledon gles title, beating Belgium's Justine Henin- ardenne in July, 2006.

Mavalankar, Ganesh Vasudeo (1888-1956): First Lok Sabha Speaker, who had played active role in India's Non-cooperation and Civil Disobedience movements.

Maxim, Hiram Stevens (1840-1916): American who invented the Maxim machine gun.

Maxwell, James Clerk (1831-'79): British physicist, whose work revolutionised fundamental physics. First scientific paper at 15.

Mayer, Louis Burt (1885-1957): Film executive of note in USA in the thirties and forties. Founded a film production company in 1912. Vice-President of Metro-Goldwyn-Mayer.

Mazarin, Jules (1602-61): French cardinal and statesman, born in Italy. Chief minister under Anne of Austria.

Mazumdar Shaw, Kiran (b.1953): Entrepreneur who has become India's richest woman. 'India's biotech queen'. M.D. of

Biocon, one of world's leading biotechnology companies. Padma Bhushan, 2005.

Mazzini, Giuseppe (1805-'72): Italian patriot; dominated movement for nationalism.

Mboya, Tom (1930-69): Kenyan political leader. General Secretary of KANU, minister under Jomo Kenyatta. Assassinated

McEnroe, John (b. 1959): U.S. tennis genius, youngest to win U.S. men's singles (1979).

McLuhan, Marshall (1911-1980): Canadian communications writer; *The Medium is the Message*.

Meera Behn (1892-1982): British disciple of Gandhiji. Real name Madeline Slade. Padma Vibhushan.

Mehmood, Talat (1924-'98): Ghazal singer par excellence. Once Dilip Kumar's voice.

Mehndi, Daler (b. 1968): Popular Punjabi pop singer. Landed a Rs. 2.75 cr contract in June, '98, the biggest ever sing deal for a singer in India.

Mehta, Pherozeshah (1845-1911) One of the founders of the Indian National Congress, a pioneer of 'Swadeshi'.

Mehta, Ved (b. 1934): Indian author and journalist. Settled in New York. Blind at age 3. Writer for the *New Yorker*. Portrait *India, Face to Face, Walking the Indian Streets*.

Mehta, Zubin (b. 1936): Indian-born musician and conductor of world-famous Israel Philharmonic Orchestra and the 130-member New York Philharmonic Orchestra. The Knight of the Legion of Honour (Paris, 2001), Life Membership of Vienna Philharmonic (Orchestra, 2001).

Melr, Mrs. Golda (1898-1978): First woman to be Israeli Prime Minister, 1969-1974.

Menchu, Rigoberta (b. 1959): Guatemalan Indian leader and human rights campaigner. Nobel Peace Prize, 1992.

Mendel, Gregor Johann (1822-'84) Austrian botanist who discovered the basic laws of heredity.

Kara (1898-1982): Indian diplomat. Foreign Secretary whose son non Jr. also held the same post later. *Troika*.

n, Vallathol Narayana (1878-1958): Indian (Malayalam) poet, patriot. of Kerala Kala Mandalam. *Badhira-*

n, Vengalil Krishnan Krishna (1894-1974): Defence Minister and Minister of Portfolio in Nehru Cabinet. Orator, writer, distinguished himself with eloquent eloquence at the U. N. on Kashmir. 1955.

hlin, Yehudi (1916-'99): World-famous pianist. b. New York of Russian Jewish parents. First appeared as soloist at age 7.

ouri, Melina (1924-'94): Greek actress and activist. Became an instant international star ('60) in *Never On Sunday*.

ill, Charles (1885-1956): American investment banker, who co-founded J.P. Morgan & Co.

Michelangelo (1475-1564): Italian sculptor, architect and poet. Painted ceiling of the Sistine Chapel (a surface of 4,600 square feet), *Last Judgement, Pieta*.

John Stuart (1806-'73): English philosopher and economist. *On Liberty*.

, Alan Alexander (1882-1956): English humorist and poet whose work for children is still widely read.

son, John (1894-1974): English writer. After he went to India he wrote *Paradise Lost*, one of his greatest epics. *Paradise Lost*.

, Sania (b. 1980): India's high-

and female tennis player and first In-



Milne: *Winnie-the-Pooh*

Anita Desai

The Merchant Ivory film "In Custody" (1993) was based on Anita Desai's novel of the same name. Born in 1937 to a German mother and an Indian father, she authored "Fasting, Feasting" (1999), short-listed for the Booker Prize.

dian woman to enter the third round of a Grand Slam tournament (Australian Open 2005). Reached US Open fourth round, 2005.

Mitra, Sombhu (1915-'97): A peerless stage actor with great influence on Indian theatre scene.

Mittal, Lakshmi (b. 1950): Billionaire owner of Mittal Steel Co., steel-maker across four continents, who in 2006 with steel giant Arcelor formed world's largest steel company, Mittal Arcelor. Son Aditya Mittal is its CFO. Lakshmi Mittal built up his empire from a single steel mill on Indonesian rice fields in 1976. He was named world's 15th most admired CEO in 2005.

Mitterrand, Francois (1916-'96): French socialist politician, fourth president of the Fifth Republic, 1981. Re-elected, 1988.

Modigliani, Amedeo (1884-1920): Italian painter and sculptor.

Mohamad, Dr. Mahathir bin (b.1925): Prime Minister of Malaysia since 1981.

Mohammed, Prophet (570-632): Mohammed is believed by Muslims to be the Last Messenger of God to mankind. *The Quran*, the Sacred Book of Islam, is believed to be the Word of God, revealed to Mohammed in stages over 23 years. Received the first revelation and the command to preach at the age of 40; taught that there is only one God. Forced to migrate from

to Medina in 622, the year of the Hegira. He returned to Mecca, where the Kaaba is regarded as the holiest shrine in Islam and the focal point of the Haj pilgrimage.

Mollere (Jean Baptiste Poquelin), (1622-'73): French playwright and actor. *Tartuffe*.

Molotov, Vyacheslav Mikhailovich (1890-1986): Russian revolutionary leader and Soviet statesman. Commissar for foreign affairs.

Monod, Jacques (1910-'76): French biochemist who, with Francis Jacob, proposed the existence of messenger RNA. Nobel Prize 1965 shared with Jacob and Andre Lwoff.

Monroe, Marilyn (1926-'62): (real name: Norma Jean Mortenson (later) Baker). American film star and charming sex symbol of her times. *The Seven Year Itch*, *The Misfits*.

Montessori, Maria (1870-1952): Italian educationist, who developed an educational system based on giving children freedom in a specially prepared environment.

Moon, Dr. Sun Myung (b.1920): Evangelist born in Korea, founder of the Unification Church, which he shifted to USA; has a multimillion dollar business empire.

Moore, Bobby (1941-'93): Soccer legend, he captained England to its World Cup triumph in 1966. Played 1000 league games.

Moraes, Frank (1907-'74): Eminent Indian journalist. Editor, *Indian Express*, *Times of India*. His son Dom Moraes (1938-2004), poet.

More, Sir Thomas (1478-1535): English statesman, author and martyr; Lord Chancellor. On his refusal to recognise Henry VIII as head of the church, he was executed. His *Utopia* describes an ideal state.

Morita, Akio (1921-99): Electronic pioneer; Co-founder of Sony Corp.

Morris, Jan (b.1926): England-born Welsh travel writer and historian. 40 books and countless essays. *Venice*, *Pax Britannica* trilogy, *Hav*, *Trieste and the Meaning of Nowhere*.

Morse, Samuel (1791-1872): American

artist and inventor; invented telegraphy and the dot-and-dash code that bears his name.

Mountbatten of Burma (Lou Mountbatten) (1900-'79): British admiral and statesman, great-grandson of Queen Victoria. In WW II, chief of combined operations in 1942. Last Viceroy of India and first Governor-General of the dominion. Assassinated.

Mozart, Wolfgang Amadeus (1756-'91): Austrian composer. One of world's great musical geniuses. Began his career at four and toured Europe at six. Three of the greatest operas in musical history are his *Marriage of Figaro*, *Don Giovanni* and *The Magic Flute*.

Mueller, Prof. Max (1823-1900): German indologist and linguist. Taught Sanskrit at Oxford University, 1848. *India - What Can It Teach Us*, *The Science of Language*.

Mugabe, Robert Gabriel (b. 1924): First Prime Minister of independent Zimbabwe, 1980; now President.

Murdoch, Rupert (b. 1931): US publisher and entrepreneur born in Australia. His company, News Corp., owns Fox Broadcasting Company and several British national papers, including *The Times* and *The Sun*. He also owns 20th Century Fox, HarperCollins (UK publishers), and the satellite broadcasting company DirecTV.

Murthy, N.R. Narayana (b.1946): Co-founder, (1981), Chairman and Chief Mentor of India's IT leader Infosys Technologies. Small-town boy who rose to be a billionaire and a pioneer of 21st century Indian industry. Retired in 2006; now Chief Mentor and non-executive Chairman. Named world's 8th most admired CEO in 2006.

Mussolini, Benito (1883-1945): Fascist dictator of Italy, 1922-43. In 1940 he entered the war on the side of Hitler. Defeat in North Africa and the invasion of Sicily caused the collapse of his government. Killed by partisans.

Nabokov, Vladimir (1899-1977): Rus-

an-American novelist, poet and an authority on butterflies. *Lolita*.

Nader, Ralph (b.1934): American lawyer and consumer protectionist. Candidate in 2000 and 2004 Presidential elections.

Nagarjuna (1st century): Philosopher, scientist and a great figure of Court of Kanishka. From Hieun Tsang called "one of the four lights of the world". *Madhyamike Sutra*.

Nagy, Imre (1896-1958): Communist Prime Minister of Hungary, assassinated after the 1956. Uprising was crushed by Soviet Union.

Naidu, Sarojini (1879-1949): Indian poetess of English language, known as the 'ightingale of India'. Took part in freedom struggle. First woman Governor of an Indian state (U.P.). *Golden Threshold, Bird of Time, Broken Wing*.

Nalpaal, Vidiadhar Surajprasad (b. 1932): British writer, born in Trinidad of Indian descent. Nobel prize, 2001. *Miguel Street, A House for Mr. Biswas, A Bend in the River, A Way in the World*.

Nair, Madath Thekkepat Vasudevan (b. 1934): Well-known Malayalam novelist; Jnanpith award, 1995. *Nalukettu*.

Nair, Mira: (b. 1957): Indian film director. *Salaam Bombay, Mississippi Masala, Monsoon Wedding* (Golden Lion, Venice 2001).

Namboodiripad, Elamkulam Manacal Sankaran (1909-'98): Indian politician, writer, General Secretary of Communist Party of India (Marxist) until 1992, Chief Minister of India's first elected Communist government) Kerala-1957-'59, '67-'69.

Nanak, Guru (1469-1538): Indian guru, who tried to put an end to religious strife, teaching that 'God is one, whether he be Allah or Rama'. His followers are the Sikhs.

Nanda, Gulzari Lal (1898-1998): Gandhian, India's acting Prime Minister twice and veteran labour leader. One of the chief authors of India's planned economy. Bharat Ratna, 1997.

Rasraj

Pandit Jasraj, the 75-year-old vocalist, who is also known as Rasraj, received 500 gold mohurs (coins) from King Tribhuvan Bir Bikram Singh of Nepal for a performance in 1952.

Naoroji, Dadabhai (1825-1917): Pioneer of Indian nationalism. First Indian to become member of British Parliament (1862). Congress President thrice. 'Grand Old Man of India'.

Napier, John (1550-1617): Scottish mathematician and clergyman. Invented logarithms and the modern notation of fractions.

Napoleon I (Bonaparte) (1769-1821): French emperor and general. Brilliant victories over Austrians and Russians. The Allies forced him to abdicate. In 1815, defeated at Waterloo and exiled to St. Helena.

Narain, Jayaprakash (1902-'79): Sarvodaya leader of India, known popularly as Loknayak. Social reformer with socialistic zeal; author. Instrumental in the formation of the Janata Party. Bharat Ratna.

Narayana Guru, Sri (1855-1928): One of the most illustrious social reformers and religious leaders, born in Kerala, India. Thinker and mystic who tried to improve the lot of backward classes. Spread the message of equality of men, irrespective of religion. St. Narayana Dharma Paripalana Sangam formed in 1903.

Narayan, Rashipuram Krishnamacharya (1906-2001): Indian writer in English. *Guide, Swami and Friends, Malgudi Days*.

Narayanan, Kocheril Parameswara Varier (2005): President, from 2002 to 2007. Joined after graduating from economics. Diplomat.

ist (V.C., Jawaharlal
Minister (Planning,
and Technology).
Narya (1889-1956):
leader and education-
Congress Socialist Party
Lucknow university and

ayant V. (b. 1938): In-
Research into 'black holes'.
f. Fred Hoyle in Cambridge.
d, Kalinga Award (1996).

amal Abdel (1918-'70):
sman and leader of the Arab
osed General Neguib (1954).
ised the Suez Ca-
956. One of the founders of NAM.

ilova, Martina (b. 1956): One
time greats in tennis. U.S. citizen
zechoslovakia. Wimbledon 9 times,
en 4 times. 167 singles and 162
s titles.

**hru, Pandit Jawaharlal (1889-
'94):** First Prime Minister (1947-1964) and
itect of modern India. Close associate
Mahatma Gandhi. Ardent democrat, in-
nationalist, advocate of scientific method
nd modern technology. One of the
ounders of NAM. Daughter Indira Gandhi
and grandson Rajiv Gandhi became PMs.
Bharat Ratna. *Glimpses of World History, Dis-
covery of India.*

Nehwal, Sania (b.1990): The first Indian
woman to become Badminton Grand Prix
champion.

Nelson, Horatio (1758-1805): Fore-
most admiral in the history of England. De-
stroyed the French fleet at Trafalgar (1805),
but lost his life.

Nero, Claudius Caesar (A.D. 37-68):
Roman emperor. Weak and licentious; per-
secuted Christians. The fire of Rome during
his reign. Committed suicide.

**Newman, John Henry Cardinal (1801-
'90):** Outstanding religious thinker and es-

sayist of 19th century; author of *Lead Kindly
Light*.

Newton, Sir Isaac (1642-1727): English
scientist, known for his work on the compo-
sition of white light, calculus and the theory
of gravitation. *Principia Mathematica*

Nicholas II (1868-1918): Last emperor
and Tsar of Russia. When revolution broke
out in 1917 he and his family were shot dead.

Nietzsche, Friedrich (1844-1900):
German philosopher and poet, known for his
concept of the overman or superman. *Thu
Spake Zarathustra.*

Nightingale, Florence (1820-1910)
English nurse and founder of modern n-
ing. During the Crimean war, she organ-
a nursing service. Known as 'The Lady
the Lamp'.

Nivedita, Sister (1867-1911':
woman (Margaret Elizabeth Nobel) who be-
came disciple of Swami Vivekananda and was
in India for 12 years.

Nixon, Richard Milhous (1913-'94):
Republican President of the U.S., 1969-74. A
process of reconciliation with China begun.
The Watergate conspiracy led to his resigna-
tion, 1974.

Nkrumah, Kwame (1909-'72): First
premier of Ghana, 1957 and first President
of republic, 1960. Overthrown in 1966.

Nobel, Alfred Bernhard (1833-'96)
Swedish inventor and philanthropist. Disc-
ered dynamite. Bequeathed a fund for
annual prizes now known as Nobel Prizes.

**Nostradamus or Michel De N-
Dame (1503-66):** French astrologer and
physician, known for his prophecies.

Nyerere, Julius (1922-'99): Former Tan-
zanian President and popular African leader.
Chairman, South Commission.

Oberoi, Mohan Singh (1900-2002):
India's famous hotelier. From humble begin-
ning rose to own international chain of h-
tels.

Ogilvy, David (1912-'99): Doyen of

vertising world, founder of the international ad agency, Ogilvy & Mather.

Ojukwu, Odumegwu (b. 1933): Head of the secessionist state of Biafra (1967-70), which was part of Nigeria. After the conflict, fled the country but returned later.

Olajuwon, Hakeem (b. 1963): US basketball player, born in Nigeria. Held the record for blocked shots. Nickname: 'The Bam'.

Olivier, Laurence (1907-'89): British actor and director, especially in Shakespearean roles.

Omar Khayyam (c. 1050-1123): Persian poet and astronomer. His *Rubaiyat*, translated into English by Edward Fitzgerald.

Onassis, Aristotle (1906-'75): Greek billionaire and shipping magnate. Married Jacqueline, widow of former US president Kennedy.

Oort, Jan (1900-'92): Dutch astronomer. Proposed the existence of the Oort cloud, a vast collection of ice chunks far beyond Pluto.

Orwell, George (Eric Arthur Blair) (1903-50): English satirist, born in India. *Animal Farm*.

Osborne, Adam (1939-2003): Computer technologist. He produced the first portable computer.

Otto I (The Great) (912-973): King of Germany and Holy Roman Emperor.

Owens, John Cleveland ('Jesse') (b. 1913): American athlete. First man to win 4 track and field gold medals (100 m, 200 m, long jump, 4x100 m relay) in single Olympics (1936).

Packer, Kerry (1937-2005): Australian media mogul believed to be the richest person in Australia.

Paes, Leander (b. 1974): Indian winner of Wimbledon junior men's singles title, Davis Cup Captain, 1990. In '96, won a bronze medal at Atlanta Olympics. Suriname Grand Slam doubles title winner, better

Working Hours

The average worker in most rich countries spends much less time at work now than in the early 1990s. In Japan, the number of hours has dropped by 6.5 p.c. since 1994.

known for his exploits in the doubles with Mahesh Bhupathi including Wimbledon '99.

Pal, Bachendri (b. 1956): The first Indian woman and the fifth woman in the world to scale Mount Everest (1984).

Palkhivala, Nani (1920-2002): Eminent Indian jurist. Ambassador to USA, 1977-79. Padma Vibhushan, 1998.

Pandit, Vijayalakshmi (1900-'90): Sister of Jawaharlal Nehru; First woman in India to become Minister (U.P., 1937); India's High Commissioner to UK (1956-'62); Ambassador to the U.S. and USSR. First woman President of UN General Assembly (1954). Governor, Maharashtra (1962-'64).

Panikkar, Sardar K. M. (1894-1963): Scholar, historian, diplomat. Minister in Patiala, Bikaner. Ambassador to China, Egypt and France. Member, States Reorganisation Commission. V-C, Kashmir & Mysore Universities.

Pant, Gobind Ballabh (1887-1948): Freedom fighter; Chief Minister, U.P. and Home Minister in Nehru cabinet. *State of Patna*.

Parker, Dorothy (1893-1960): Canadian writer, known for her *The Book of David* and *Death and Taxes* are *the best gifts for the living* and *the best presents* are short story collections.

Parks, Rosa (1913-1955): African American rights activist. *Mother* *her seat on a bus* *incident resulted* *death and death*.

(1922-'75): Italian journalist and critic.

(190-1960): Russian awarded Nobel Prize for *Dr. Zhivago*.

(1822-'95): French microbiologist. His investigation of immunology. **Prasad Gordhanbhal** an economist. Principal of age 25. Served in IMF; Director, London School of (1990).

Ar Vallabhbhai (1875-1947): "Mahatma of India". Leading worker. Worked closely with Mahatma. Key role in the integration of princely states with the Union. Deputy Minister in Nehru government. Bharat Ratna (1954).

Gopal Swarup (1886-1982): Minister of India, 1969-1974.

Chandrabhaga Medha (b. 1956): Indian social environmentalist; firebrand leader of the Chipko movement. Right Livelihood Award (1990).

Lord Swraj (b. 1931): British-Indian industrialist. Member, House of Lords; VC of Wolverhampton University.

Linus Pauling (1901-'94): American chemist who won Nobel Prize for Chemistry (1954) and for Peace (1962). Known for his opposition to nuclear tests.

Luciano Pavarotti (b. 1935): Italian tenor, considered the greatest tenor of his times. Retired from staged opera in 2004.

Ivan Pavlov (1849-1936): Russian physiologist. Nobel Prize, 1904.

Octavio Paz (1914-'98): Mexican poet. Nobel Prize, 1990. Ambassador to India, 1962-68. *Labyrinth of Solitude*, *Sun Stone*.

Rev. Norman Vincent Peale (1898-1993): American religious leader, who

preached positive thinking for more than half a century.

Lester Bowles Pearson (1897-1972): Canadian statesman, PM (1963-'68). Notable Peace Prize, 1957.

Pele (Edson Arantes Do Nascimento) (b. 1940): Brazilian soccer player. A world star at 17. Played in all four World Cup championship tournaments from 1958 to 1978. The first player ever to play on three world championship teams. Scored 1281 goals in 1363 games.

Juan Domingo Peron (1895-1974): President and dictator of Argentina. Deposed by army (1955), went into exile, returned (1973), re-elected president. Third wife Maria Isabel succeeded him as President.

Mahatma Jotirao Govindrao Phule (1827-'90): Social reformer of India who worked for the downtrodden, women's education, social justice and against child marriage. Wife Savitribai (1831-'97) was harbinger of women's liberation, pioneer in women's education.

Pablo Picasso (1881-1973): Spanish painter, sculptor and ceramicist. Described as the century's most prolific and versatile artist. One of the originators of Cubism. *Guernica*.

William Pickering (1909-2004): American space programmer who guided NASA's moon missions.

Sivasankara Pillai, Thakazhi (1915-'99): Indian writer (Malayalam) Gyanpith award. *Chemmeen*, *Kayar*.

Harold Pinter (b. 1930): British dramatist, actor and director. Plays known for their elusive dialogue and atmosphere of menace. *The Caretaker*, *The Homecoming*, *Moonlighting*. Nobel Prize, 2005.

Sir Isaac Pitman (1813-'97): English inventor of a system of phonographic shorthand.

Satyanarayan Gangaram Pitroda (b. 1932): Technocrat. Popularly known as Sam Pitroda.

Pitroda. The man behind India's telecom revolution in 1980s. Chairman of World Tel (an agency for ITU). Chairman of National Knowledge Commission.

Pitt, William (1759-1806): ('the Younger Pitt') English statesman; the youngest Prime Minister (at 24), 1783.

Plato (427-347 B.C.): Greek philosopher and educator; pupil of Socrates, teacher of Aristotle. *Dialogues*, which includes the *Republic*, the longest and most celebrated work.

Podolski, Lukas (b.1985): German (born in Poland) striker named Best Young Player at World Cup 2006 by FIFA.

Poe, Edgar Allan (1809-'49): American poet and story writer. *The Raven*, *To Helen*.

Poltier, Sidney (b. 1924): US film actor. First black actor to win Oscar for best actor. *Lilies of the Field*, *Good-bye Mr. Chips*.

Pol Pot (1928-'98): Notorious leader of the dreaded Khmer Rouge (Cambodia) accused of genocide and held responsible for massacre of 1.5 to 2 m. people during his regime of 1975-'79. Also known as Saloth Sar.

Pollock, Paul Jackson (1912-56): American painter famous for his 'drip painting' technique.

Polo, Marco (c. 1256-1323): The most famous European traveller in the Far East, China, India.

Pompidou, Georges (1911-'74): French PM and President, after de Gaulle ('69).

Pope, Alexander (1688-1744): English poet, *The Rape of the Lock*, *The Dunciad*.

Post, Emily (1873-1960): Writer and arbiter of American manners. *Emily Post's Etiquette*.

Powell, Colin L (b,1937): Former US Secretary of State. General who served for three decades in the army. *My American Journey*.

Prasad, Dr. Rajendra (1884-1963): Statesman and Gandhian. First President of the Republic of India, 1950-'62. Bharat Ratna.

Premchand, Munshi (1880-1936): Hindi writer whose real name was Dhanpat Rai. A pioneer of modern social fiction.

The Discovery of Timbuktu

Rene Caillie was the first European to visit the town of Timbuktu in Mali and return alive. He travelled disguised as an Arab traveller (1828). Timbuktu, on the southern fringe of the Sahara, has been, for centuries, the cross-roads for caravan trails.

Godan, Sevasadan, Rangamanch, Ghaban, Nirmala.

Premji, Azim Hasham (b.1945): Chairman, Wipro, an IT giant. Richest Indian in the world for several years, third richest person in the world, 2000. Sixth among 10 richest Tech Titans, in Forbes list, 2006.

Presley, Elvis (1935-'77): US popular singer, whose fusion of Black rhythm and blues and white country styles created modern pop music. He is the most successful recording artist in history with hits like *Hound Dog*, *Don't be cruel*, and *Suspicious Minds*. He also acted in numerous films.

Priestley, John Boynton (1894-1984): English novelist, essayist, critic and playwright. *The Good Companions*, *Angel Pavement*.

Pritam, Amrita (1919-2005): Indian poetess and novelist. Gyanpith award. *Kagaz ke Kanwaz*.

Proust, Marcel (1871-1922): French novelist whose masterpiece was the 12-volume *Remembrance of Things Past*.

Pushkin, Alexander (1799-1837): Russian poet. *Eugene Onegin*, *The Captive of the Caucasus*.

Pythagoras (c. 582-500 B.C.): Greek philosopher and mathematician. He saw numbers the key to the understanding universe.

Quasimodo, Salvatore (1901-'61)

ian poet associated with hermeticism. Nobel Prize.

Quisling, Vidkun (1887-1945): Norwegian politician who helped the enemy during German invasion of Norway. Seized as a traitor and shot. The word 'quisling' means 'traitor'.

Radhakrishnan, Dr. Sarvepalli (1888-1975): Indian scholar, philosopher, writer and statesman. First Vice-President (1952-'62) and second President (1962-7) of India. Formerly a professor at Oxford, and Chairman of UNESCO. Bharat Ratna; Templeton award. *The Hindu View of Life, Indian Philosophy.*

Rafi, Mohammed (1926-'80): India's top playback singer. More than 20,000 songs.

Rahman, A.R. (b. 1967): India's leading film music director. *Roja, Bombay.* His album 'Vandemataram', a best-seller.

Rahman, Sheikh Mujibur (1920-'75): Father of the new nation of Bangladesh, and its first President and Prime Minister. Killed in a coup on Aug. 15, 1975. His daughter Sheikh Hasina became PM in 1996.

Rahman, Ziaur (1937-1981): Former President of Bangladesh; rose to power in 1975, through a coup; assassinated. His wife, Begum Khaleda Zia, later became PM.

Rai, Alswarya (b. 1974): Indian beauty queen who was crowned Miss World at Sun City, Johannesburg in 1994. A brilliant Hollywood star, the first Indian actress to be on Cannes jury.

Rai, Lala Lajpat (1865-1928): Indian patriot and prominent freedom fighter, known as the 'Lion of the Punjab' (Punjab Kesri).

Raj, Dr. Kakkadan Nandanth (b. 1924): Indian economist and Professor, V C of Delhi University, Director of Delhi School of Economics. Co-founder, Centre for Development Studies, Thiruvananthapuram.

Rajagopalachari, Chakravarti (1878-1972): The first and last Indian Governor-General of India (1948-'50). Rajaji. CM, Ma-

dras; Union Minister, Home Minister in Nehru's cabinet, and Governor, West Bengal. Founded Swatantra Party. Bharat Ratna 1954.

Rajneesh (Chandra Mohan Jain (1931-'90): Charismatic godman of India also known as Osho. Set up ashram at Pune and 'Rajneeshpuram' on 64,000 acres in Oregon, USA. Turned controversial.

Raleigh, Sir Walter (1552-1618): adventurer and writer. In 1584 began the colonisation of Virginia. He was executed.

Ramachandran, Marathur Gopal (1917-'87): Film star-turned politician of India, Chief Minister of Tamil Nadu. Bharat Ratna, 1988.

Ramakrishna Paramhansa, Sri (1836-'86): Religious leader of India who taught that God-realisation is the only goal of life. Chief disciple was Swami Vivekananda. Ramakrishna Mission after his name.

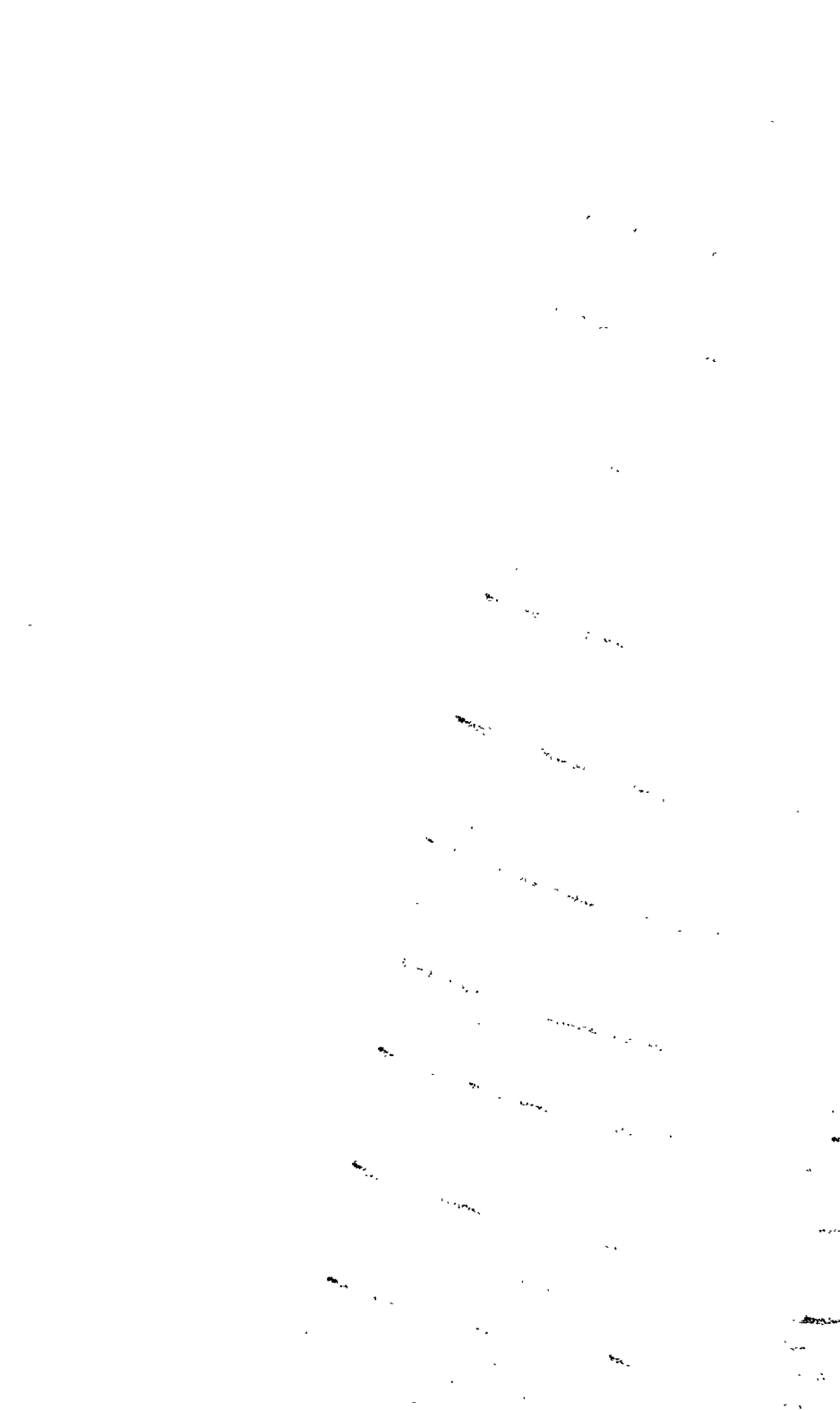
Raman, Dr. Chandrasekhara Venkata (1888-1970): Indian physicist whose research on the diffusion of light (discovery of "Raman effect") a phenomenon of scattered light rays earned him Nobel Prize, 1930. Founded Indian Institute of Science, Bangalore. Lenin Peace Prize, Bharat Ratna.

Ramanujan, Srinivasa (1887-1920): One of the greatest mathematicians India has ever produced.

Ramanna, Dr. Raja (1926-2004): Indian nuclear physicist; He was Director, Bhabha Atomic Research Centre, Secretary, Atomic Energy Dept., Chairman, Atomic Energy Commission (1984) and Union Minister.

Ramanuja, Acharya (11th.c.): Vaishnavite guru of India, Founder of Rama Bhakti movement.

Rao, Pamulaparti Venkata Narasimha (1921-2004): Prime Minister of India, 1991-'96. Formerly, Chief Minister (Andhra Pradesh) 1971-'73. Union Minister (External Affairs, Defence, Human Resources) 1980 onwards.



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Isling, Vidkun (1887-1945): Norwegian politician who helped the enemy during German invasion of Norway. Seized as a traitor and shot. The word 'quisling' means traitor.

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Chakrabarti, Lala Lajpat (1865-1928): Indian nationalist and prominent freedom fighter, known as the 'Lion of the Punjab' (Punjab).

Chakrabarti, Dr. Kakkadan Nandanath (b. 1924): Indian economist and Professor, V C College, Delhi University, Director of Delhi School of Economics. Co-founder, Centre for Development Studies, Thiruvananthapuram.

Chakrabarti, Jagopalachari, Chakravarti (1878-1950): The first and last Indian Governor-General of India (1948-'50). Rajaji. CM, Madras;

Union Minister, Home Minister in Nehru's cabinet, and Governor, West Bengal. Founded Swatantra Party. Bharat Ratna, 1954.

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Rao, Raja (1908-2006): Novelist, famous for his contributions to Indian English literature. *Kanthapura*, *Serpent* and *The Rope*. Padma Bhushan.

Raphael, Saint (1438-1520): Italian painter and architect. Associated with the rebuilding of St. Peter's.

Rasputin, Grigori (1871-1916): Russian courtier and religious figure. At the court of Nicholas II, he exerted influence over the Tsarina. Murdered by a group of nobles.

Ray, Satyajit (1921-'92): The greatest Indian film director. Won special Oscar award and Bharat Ratna in 1992. His films are notable for their realistic portrayal of everyday life. *Pather Panchali*, *Aparajita*, *Charulata*.

Reagan, Ronald (1911-2004): U.S. President, 1981-'88; former T.V. and film star, 1937-'66. Governor of California, 1967-'74.

Reddy, Neelam Sanjiva (1913-'96): President of India, 1977-1982, before which he was Chief Minister (A.P.), Union Minister, and Speaker, Lok Sabha. Freedom fighter.

Reeve, Christopher (1942-2004): Actor best known for the 'Superman' movies. A horseback riding accident in 1995 left him paralysed. *Still Me*.

Rembrandt, Harmenszoon (1606-'69): Dutch painter and etcher, one of the undisputed giants of Western art.

Reuter, Paul Julius (1816-'99): German pioneer of telegraphic press service, who organised Reuter's international news agency.

Rhee, Syngman (1875-1965): Ardent Korean nationalist and first President of S. Korea. Rule noted for repression and corruption.

Rhodes, Cecil John (1853-1902): British statesman and empire builder. At 35, one of world's richest men. Prime Minister, Cape Colony. Developed Rhodesia, which was named after him. Scholarships in his name.

Ricardo, David (1772-1823): English

A Drug Addict's Confession

DBC Pierre - British writer Peter Finlay's pseudonym - won the 2003 Booker Prize for his debut novel *Vernon God Little*. He had admitted to being a reformed drug addict and gambler.

political economist. Principles of Political Economy and Taxation.

Richard, Cliff (b. 1940): British pop star, born in India as Harry Rodger Webb. *Living Doll* (1959), *Congratulations* (1969). 115 songs.

Richter, Dr. Charles F. (1900-'85): American inventor of Richter scale, which gauges the energy released by an earthquake as measured by ground motion recorded on a seismograph.

Rimbaud, Jean Nicolas (1854-'91): French poet. Prepared the way for symbolism. At 18 completed his memoirs. *Une Saison en Enfer*.

Roberts, Julia (b.1970): Academy award-winning American actress. Oscar for Best Actress for playing the title role in the movie *Erin Brockovich*.

Robeson, Paul (1898-1976): Black American singer and actor especially remembered for his singing of Negro spirituals.

Robespierre, Maximilien (1758-'94): French revolutionary; controversial, guillotined.

Robinson, Sir Edward Austin Gossage (1903-'93): Economist, Professor Emeritus at University of Cambridge, and abiding friend of India. Wife Joan Robinson, economist.

Rockefeller, John Davidson (1839-1937): American philanthropist and founder of the Rockefeller business empire; Founded Rockefeller University and Foundation.

Röntgen, Wilhelm Konrad von (1845-1923): German scientist who discovered X-rays (1895). Nobel prize, 1901.

Rolland, Romain (1866-1944): French novelist and dramatist. Jean-Christophe, a volume novel. Wrote biographies of Mahatma Gandhi and Vivekananda.

Ronaldo (Ronaldo Luiz Nazario De Souza) (b.1977): Brazilian footballer, considered the next Pele. Top scorer in 2002 World Cup.

Rooney, Mickey (b.1920): US film actor who often teamed with Judy Garland. A *Summer Night's Dream*, *The Human Comedy*.

Roosevelt, Franklin Delano (1882-1945): American statesman. U. S. President from 1933 till his death. The only man ever elected to four terms. Wife Eleanor was a public figure and a political personality.

Roosevelt, Theodore (1858-1919): American President. Popular because of his exploits in the Spanish-American war. Nobel prize.

Ross, Ronald (1857-1932): British physician and bacteriologist who discovered the malaria parasite. Born in India. Nobel prize, 1902.

Rousseau, Henri (1844-1910): French primitive painter. A collector of tolls (Hence known as Le Douanier, meaning 'the customs official') who retired at 41 to take up painting.

Rousseau, Jean-Jacques (1712-'78): French political philosopher whose views did much to stimulate the movement leading to the French Revolution. *Emile*, *Le Contrat Social*.

Row, Yellam Pragada Subba (1896-1948): Indian scientist (in US, 1920-1940's) who, along with Fiske, discovered creatine phosphate (1926), worked on the isolation and synthesis of folic acid.

Rowling, J.K. (b.1965): British author of internationally famous series of children's

fantasy stories concerning the exploits of the boy wizard *Harry Potter*.

Roy, Arundhati (b. 1960): The first Indian author to win Booker Prize (*The God of Small Things*), Environmentalist. Winner of Sydney Peace Prize, 2004.

Roy, Bidhan Chandra Dr. (1882-1962): Chief Minister of West Bengal (India), 1948-62; prominent physician. Bharat Ratna, 1961.

Roy, Manabendra Nath (1887-1954): Real name, Narendranath Bhattacharya. Communist. Organised the Radical Democratic Party and Indian Federation of Labour and founded Mexican Communist Party.

Roy, Prafulla Chandra (1861-1944): Great scientist and father of modern Indian chemical industry. *The History of Hindu Chemistry*.

Roy, Prannoy (b. 1946): India's leading psephologist and TV commentator. President of NDTV.

Roy, Raja Rammohan (1774-1833): Indian social reformer and scholar. Worked for the abolition of 'sati', child marriage and 'Purdah'. Founder of Brahmo Samaj.

Rubinstein, Arthur (1887-1982): US pianist, born in Poland. Began public performance at age 11.

Rublyov, Andrey (1370-1430): Russian artist, iconographer who retired to monastic life. Also known as Rublev.

Rushdie, Salman (b. 1946): Indian born British writer. His controversial book *Satanic Verses* made Iran's spiritual leader Ayatollah Khomeini sentence him to death. Booker Prize. *Midnight's Children*, *The Moor's Last Sigh*.

Ruskin, John (1819-1900): English author, social reformer and art critic. *Modern Painters* (5 volumes), *Unto This Last*.

Russell, Bertrand (1872-1970): English philosopher, mathematician and essayist. *The Principles of Mathematics*, *The Scientific Outlook*, *The Conquest of Happiness*, *The*

Autobiography, History of Western Philosophy. Nobel Prize.

Ruth, Babe (1895-1948): US baseball player whose real name was George Herman. Known by the nickname 'Sultan of Swat'. In 1927, he hit 60 home runs in a single season. Career slugging percentage: 690.

Ryunosuke, Akutagawa (1892-1927): Japanese writer, dealt with madness and macabre social contradictions. Committed suicide. Akutagawa Prize is Japan's top literary award.

Sadat, Anwar El (1919-'81): Egyptian soldier and politician. President, 1970-'81. Known for Camp David peace treaty. Assassinated. Nobel Peace Prize.

Saha, Arati (1933-'94): Indian swimmer, the first woman from Asia to cross the English Channel.

Saha, Meghnad (1893-1956): Indian scientist who first attempted to develop a consistent theory of spectral sequence of the stars from the point of view of atomic theory.

Sakharov, Andrei (1921-'89): Soviet nuclear physicist, human rights activist. Nobel prize.

Saki, (pseudonym of Hector Hugh Munro) (1870-1916): British satirist and humorist. *The Unbearable Bassington*, *Reginald*.

Salk, Jonas (1915-'95): US microbiologist who developed the first successful vaccine against polio.

Sampras, Pete (b. 1971): American tennis star. Six Wimbledon men's singles titles. First player since Boris Becker in 1989 to win Wimbledon and the US Open in the same year (1993). Retired, 2003.

Sankaracharya (788-820): (Adi Sankara) Scholar and philosopher from India, who revived the Hindu religion; founder of Advaitic philosophy; established 'mutts' all over India.

Sanyal, B.C. (1901-2003): Eminent Indian painter, President of Lalit Kala Akademy

A Reign of Expansion

Who said 'I have no way to defend my borders but to extend them'? Catherine the Great, the Empress of Russia who gained the throne in a coup in which her unpopular husband Emperor Peter III was murdered.

Padma Bhushan.

Sappho (c. 612-c.580 B.C.): The greatest female lyric poet of ancient Greece.

Sarabhai, Dr. Vikram (1919-'71): Indian nuclear scientist who was Chairman of the Atomic Energy Commission. Helped set up the Thumba rocket station.

Saramago, Jose (b. 1924): Portuguese novelist. *Baltazar and Blimunda*. Nobel Prize, 1998.

Saraswati, Dayanand (1824-'83): Hindu social reformer. Founded Arya Samaj school and fought for removal of social evils.

Sartre, Jean-Paul (1905-'80): French dramatist, essayist, novelist and leader of the philosophical movement, existentialism. *Being and Nothingness*, *The Roads to Freedom*, *The Flies*. Nobel Prize (1964) but he declined it.

Sastry, V.S. Srinivasa (1869-1946): Associated with Servants of India Society; promoted education and worked for women's legal status

Savitskaya, Svetlana (b. 1949): Soviet cosmonaut; the first woman to walk in space; the only woman to have made two space flights

Schumacher, Michael (b. 1967): German Formula One driver. Most successful driver ever with the most career victories. First to win French Grand Prix eight times

Schwarzenegger, Arnold Austrian-born Hollywood actor for his films like *T*

Recall. Took to Republican politics and was elected to the governorship of California.

Schweltzer, Albert (1875-1965): German medical missionary, humanitarian, musician and philosopher. Founded at Mbarene in Africa a hospital to fight leprosy and sleeping sickness and worked there for over 50 years. Nobel Peace Prize, 1952.

Scott, Sir Walter (1771-1832): Scottish novelist and poet. *Ivanhoe*, *Kenilworth*.

Schwag, Virender (b. 1979): Cricketer. The first Indian to hit a triple century in Tests. His 309 at Multan is India's highest individual score.

Seles, Monica (b. 1973): of Yugoslavia. At 17, the youngest world champion of women's tennis. Twenty titles before the age of 18. Stabbed mid-match in Hamburg in 1993, stayed away from tennis for two years.

Sen, Amartya Kumar (b. 1933): Indian economist, the Lamont Professor of Philosophy and Economics at Harvard University, Master of Trinity College, Cambridge. Nobel Prize (1998), Bharat Ratna.

Sen, Mihir (1930-'97): First Indian to cross the English Channel. World record in long distance swimming.

Sen, Mrinal (b. 1923): Famous Indian film director. *Bhuvan Shome*, *Khariz*.

Senna, Ayrton (1960-'94): Race driver from Brazil, one of only 7 drivers to win the world championship three times. Killed in a crash during the San Marino Grand prix.

Seshan, Tirunellay Narayana Iyer (b. 1932): India's Chief Election Commissioner 1990-'96. Defence Secretary (1998) and Cabinet Secretary (1989). Magsaysay award.

Sethi, Dr. P.K (b. 1927): Noted Indian orthopaedic surgeon and inventor of the 'hipur Foot'. Magsaysay Award, 1981.

Sethi, Geet (b. 1962): This unseeded player from India became the king of the world billiards championship in 1985. The youngest ever to wear the crown in his maiden appearance.

Shackleton, Ernest Henry (1874-1922): Antarctic explorer from Ireland. His expedition was within 155 km of the South Pole in 1909.

Shaftesbury, Anthony (1621-83): English statesman. Worked with Oliver Cromwell. Supported restoration of Charles II. Founded the Whig Party in 1673. Exiled, 1682.

Shakespeare, William (1564-1616): Greatest dramatist and poet of England. Unbeatable in mastery of language, understanding of character and dramatic perception. 37 plays, 154 sonnets, two poems. *Romeo and Juliet*, *Julius Caesar*, *Hamlet*, *Othello*, *Macbeth*, *The Tempest*.

Shankar (1902-'89) (Sankara Pillai): Indian cartoonist. Known for 'Shankar's Weekly', the International Children's Art Competition and the International Dolls Museum, all founded by him.

Shankar, Ravi (b. 1920): Internationally known Indian sitar maestro. Bharat Ratna. *My Music, My Life*.

Sharapova, Maria (b. 1987): Russian golden girl of tennis who won Wimbledon 2004.

Sharma, Dr. Shankar Dayal (1919-1999): President of India, 1992-97. Scholar, freedom fighter. Was Chief Minister of M.P., Congress President, Union Cabinet Minister, Governor and Vice-President.

Sharma, Rakesh (b. 1954): The first Indian cosmonaut to go into space, aboard Soyuz-T 11 for a rendezvous with Salyut-7 (1984).

Shastri, Lal Bahadur (1904-'66): Indian politician who succeeded Nehru as India's second Prime Minister (June 1964-Jan. 1966). Earlier, Cabinet Minister. A simple and selfless Gandhian. Died at Tashkent. Bharat Ratna.

Shaw, George Bernard (1856- 1950): Irish dramatist and the greatest critic of his age. Conquered England by his wit. Nobel Prize. *Man and Superman*, *Saint Joan*, *Pygmalion*.

Modi, Manmohan Singh (b. 1932): President of India since August 19, 2002. Former CM, Rajasthan. Senior BJP leader.

Keats, Percy Bysshe (1792-1822): English Romantic poet, renowned for his dark poems; a passionate advocate of freedom. *Ode to the West Wind*, *Hyperion*, *Hyperion*.

Sharma, Vandana (b. 1952): Economist, environmentalist and physicist. Leads campaigns on biopiracy and biosafety, had a role in preventing foreign companies getting patent for Neem and basmati. Right Livelihood award, 1993.

Chhatrapati Shivaji Maharaj (1627-1680): The great Maratha ruler who fought Mughal emperor Aurangzeb and established a Hindu state in Marathwada. Crowned king in 1674. Great warrior and wise ruler.

Dostoevsky, Mikhail (1821-1881): The great Russian realistic novelist. *Crime and Punishment*, *The Idiot*, *The Don*. Nobel prize, 1965.

Verma, Arun (b. 1943): Outstanding journalist. Former Union Cabinet Minister. Pद्मश्री award.

Chakrabarty, Manoj Night (b. 1970): Famous Indian-born Hollywood film director. *The Sixth Sense*, *Unbreakable*.

Frank Sinatra (1915-'98): (Francis Sinatra) American singer, film actor. Singing with the Rat Patrol in 1940s. Made over 100 records and 58 feature films. Oscar (*From Here to Eternity*) and Grammy lifetime achievement awards.

Tagore, Rabindranath (1861-'41): Indian poet and revolutionary, hanged by British government for participation in the Lahore conference.

Sharma, Charan (1902-'87): Prime Minister of India July 1979-Jan. 1980. Deputy Prime Minister during Janata regime.

Verma, Khushwant (b. 1915): Journalist and writer, was editor of *Illustrated Weekly*, *Navhind*, *Hindustan Times*, etc. Member of Parliament. *History of the Sikhs*, *Train to Pakistan*, *End of India*.

Dracula's Castle in Romania

'Dracula', a novel by Bram Stoker about a bloodsucking vampire, has become modern myth - the subject of many film versions. Tourists to Romania, a country Stoker himself never visited, are now shown 'Dracula's Castle'.

Pakistan, End of India.

Singh, Dr. Manmohan (b.1932): Indian statesman and economist. Prime Minister since May 22, 2004. The bureaucrat-turned-politician was formerly Finance Secretary, RBI Governor and UGC Chairman. As Finance Minister, 1991-96, introduced the pro-reform and liberalisation programme.

Singh, Paramjit (b. 1973): Indian sprinter who broke Milka Singh's 38-year old national 400 m. record in 1998.

Singh, Viswanath Pratap (b. 1931): Prime Minister of India, Dec. 1989-Nov. 1990. Crusader for social justice. Earlier, Union Minister. Janata Dal leader, and a painter.

Singh, Zail (1916-'94): President of India, 1982-87. A veteran freedom fighter; was minister (State and Central) and Chief Minister (Punjab).

Smith, Adam (1723-'90): Scottish economist, known as the 'Father of Economics'. *Wealth of Nations*.

Snow, Charles Percy (1905-'80): British writer and scientist, author of the essay *The Two Cultures and the Scientific Revolution*.

Sobers, Gary (b. 1936): West Indian cricketer, an excellent all-rounder.

Socrates (470-399 B.C.): Greek philosopher, Plato's master. Charged with impiety and with corrupting the young, found guilty, died by drinking hemlock.

Solon (c. 638-558 B.C.): At-

giver; one of the Seven Wise Men of Greece.

Solzhenitsyn, Alexander (b. 1918): Russian novelist, expelled from Soviet Union in 1974, returned home, in '94. Nobel Prize, 1970. *Cancer Ward, The First Circle*.

Sonn, Percy (b.1950): South African lawyer who replaced Ehsan manji as President of ICC in Jul, 2006.

Sophocles (495-406 B.C.): Athenian dramatic poet, ranking with *Aeschylus* and *Euripides*. *Oedipus Tyrannus, Electra*.

Sorcar, Pratul Chandra (1913-71): Famous magician India has ever seen. He was popular all over the world in 1950 & 60s. Sons magician PC Sorcar Jr and director Manick Sorcar.

Soyinka, Wole (b. 1934): Nigerian dramatist. First black African to get Nobel Prize for literature (1986). *The Interpreters, Death and the King's Horseman*.

Spassky, Boris Vasilyevich (b.1937): World chess champion (1969-'72), from Russia

Spears, Britney (b.1981): Hugely successful American pop singer. Her albums... *Baby One More Time* (1999) and *Oops!... I Did It Again* (2000) were huge hits. Sold 60 m. albums.

Spender, Stephen (1909-'95): English poet, critic, essayist.

Spenser, Edmund (1552-'99): English poet, ranking with Shakespeare and Milton. He is called 'the poet's poet'. *The Faerie Queene*.

Spielberg, Steven (b. 1947): One of world's most successful film directors. *Jaws* (1975); *E.T.- the Extra Terrestrial* (1983), *Jurassic Park* (1993), *Minority Report* (2002)- the last has broken all box-office records. *Schindler's List* won him Oscar for best director (1994) and 6 other awards.

Spock, Benjamin (1903-'98): Author of *The Common Sense Book of Baby and Child Care* (1945) which influenced parents world-wide.

Srinivas, Uppalapu (b. 1970): Mando- lin player of India who began playing it at the age of six. The youngest to receive the title "Asthana Vidwan" ('90).

Stalin, Joseph (1879-1953): Soviet statesman who for nearly 30 years was leader of the Russian people. General Secretary of CEC of USSR, 1924-41. He modernised agriculture on socialist lines by ruthless means and introduced the famous Five Year Plans in 1929.

Stallone, Sylvester (b. 1946): One of Hollywood's highest-paid actors. *Rocky, Cliffhanger*.

Stephenson, George (1781-1848): English engineer; inventor of locomotive engine.

Stevenson, Robert Louis (1850-'94): Scottish author. *Treasure Island, Kidnapped, Dr. Jekyll and Mr. Hyde*.

Stradivari, Antonia (1644-1739): Most well-known Italian maker of musical instruments. Developed the 'long Strad' style of violins. Some of his violins still survive.

Streep, Meryl (b. 1949): A first-rank American film actress. Oscar and Bette Davis Life Achievement award. *Kramer Vs Kramer, Sophie's Choice*.

Stroheim, Erich von (1885-1957): Austrian director, writer and actor. *Greed*.

Subbulakshmi, Madurai Shanmugavadivu (1916-2004): Famous Carnatic singer of India. Magsaysay award, 1974. Gave a special recital of devotional songs for the silver jubilee celebrations of UN in 1970. Bharat Ratna, 1998-first musician to receive the honour.

Subramaniam, C (1910-2000): Freedom fighter, known for his contribution to India's Green Revolution. Held posts of Union Minister, interim President of INA and Governor of Maharashtra (1990). Bharat Ratna, 1998.

Subramaniam, Ka Na (1912-'88): Renowned Tamil poet and critic. *Oru Nal, Poi Thevu*.
Sudarsan, Prof. Ennackal Chandy

Dirac (b. 1902): Indian physicist famous for his particle theory on 'tachyons', faster than light. Advanced the theory of V-A (left handed) current, one of the four fundamental forces of nature. Worked in Rochester, now Texas.

Sullivan, Louis (1856-1924): American architect; pioneered steel-frame construction; coined dictum 'Form Follows Function'.

Sun Yat-Sen (1867-1925): Chinese nationalist leader and statesman. He played a leading role in the revolutionary movement that overthrew monarchy in China in 1911. President of the Republic of China.

Tennyson, Alfred, Lord (1809-1892): English poet. Wrote sonnets and introduced blank verse into English poetry. Accused of treason, he was executed.

U Nu, Aung San (b. 1896): Myanmar's champion of democracy, opposition leader detained by the military junta. He has spent over 10 of the past 17 years in house arrest. A UN envoy was allowed to visit her in May, 06. Nobel Prize.

Swami, Chattampi (1853-1924): Chattampi Swamikal, later Chattampi Swamikal Pillai, later Chattampi Swamikal Pillai. Indian visionary and social reformer. Held close association with Chattampi Swamikal.

Swaminathan, Mankombu Sambasivan (b. 1916): Internationally known agricultural scientist of India. Was member, Planning Commission; Director General of ICRISAT, Hyderabad. Heads M.S. Swaminathan Research Foundation. Presently Chairman, Commission for Agricultural Costs and Prices, Padma Bhushan, Padma Vibhushan, Magsaysay Award, World Food Prize.

Swedenborg, Emanuel (1688-1772): Swedish scientist, mystic, philosopher and theologian. *Heavenly Arcana*.

Swift, Jonathan (1667-1745): English satirist. *Gulliver's Travels*.

Tagore, Rabindranath (1861-1941): Indian poet and philosopher who intro-

The 'Richest' is a Woman

Zhang Yin of China, a female paper recycling entrepreneur worth an estimated \$3.4 billion, is now No.1 in the list of the country's richest people, marking the first time a woman has been ranked as the wealthiest person.

duced Indian culture to the West and vice versa. Founded Shantiniketan which later became Viswabharati University. Wrote national anthems of both India and Bangladesh. *Sonar Tari, Chaitali, Kalpana, Chitrangada, Gitanjali*. Nobel Prize 1913 - first Asian to get it.

Tamerlane (Timur the Lame) (1336-1405): A great warrior of Central Asia; ruler of Samarkand, he conquered Iran, Transcaucasia, Iraq, Armenia, and Georgia.

Tandon, Purshottam Das (1882-1962): Prominent figure in the Indian freedom movement, Bharat Ratna 1961.

Tansen (c. 1492-1589): Original name Ramtanu Pande. Symbolises the best in Hindustani music. Name Tansen conferred by Akbar when he joined the Mughal court.

Tata, Jahangirji Ratanji Dadabhai (b. 1904-'93): Top Indian industrialist and organiser known for his vision and dynamism. He was the first Indian pilot to get a license. Chairman of Air India. Bharat Ratna.

Tatum, Edward Lawrie (1909-'75): American biochemist.

Taylor, Elizabeth (b. 1932): English-born American film actress. Married Richard Burton twice. *Cat on a Hot Tin Roof, Who's Afraid of Virginia Woolf?*

Temple, Shirley (b.1928): American film actress, and politician. The leading child film star in the thirties.

Tendulkar, Sachin (b. 1989):

er, former Captain. At 16 played his first test in Karachi. The youngest (at 19) to score 10,000 runs in test cricket. The first batsman to score 10,000 runs in one-day cricket. Highest scorer in One Dayers. His 40 runs in One-Day is a world record. Award. Rajiv Gandhi Khel Ratna, 1998.

Dolkar, Vijay (b. 1928): Marathi singer. Sangeet Natak Academy Award, Padma Bhushan. *Kanya*.

Dunsany, Alfred (1809-'92): English writer. *The Princess, In Memoriam*.

Ewing, Norgay (1914-'86): With Hillary, he was the first to climb the Everest in 1953.

Enxha, Mother (1910-'97): Roman Catholic nun, born to Albanian parents in Albania, and baptized Agnes Gonxha Xhuchi. Came to India as a teacher at Calcutta. Founded "Missionaries of Charity", dedicated to working for destitutes. Citizen of India. Set up about 570 homes for the poor spread in about 125 countries. Nobel Peace Prize, Magsaysay award, Templeton Award, Bharat Ratna.

Enikova, Valentina (b. 1937): Soviet cosmonaut who in 1963 became the first woman to make a space flight, aboard Vostok VI.

Enkeray, Balasaheb (b. 1926): Shiv Sena Supremo who began his career as a cartoonist at the age of 18.

Enkeray, William Makepeace (b. 1863): English novelist. *Vanity Fair, The Moonstone*.

Enth, Sithu U. (1909-'74): Burmese statesman; U.N. Secretary-General, 1962-1966.

Enroor, Shashi (b.1956): UN Under Secretary General for Communication and Information since June 2002. Selected in 2006 as India's candidate for the post of Secretary-General. Writer. Authored *The*

Great Indian Novel, India: from Midnight to Millennium, etc.

Thatcher, Margaret Hilda (b. 1925): British Prime Minister 1979-90; first woman head of govt. in modern Europe. Third successive election victory, June 1987. On Jan.3, 1988 longest serving PM since Asquith. Described as 'The Iron Lady'.

Thiers, Adolphe (1797-1877): French historian who was premier and foreign minister. Authored the 10-volume History of the French Revolution and 20-volume History of the Consulate and the Empire.

Thiruvalluvar (c. 1st century): The greatest ever Tamil poet. *Thirukural*.

Thomas, St. : One of the 12 disciples of Christ who came to India in A.D. 52 and founded seven churches in Kerala.

Thoreau, Henry David (1817-'62): American essayist, naturalist and iconoclast, who rebelled against society and lived for a time in a solitary hut. *Walden, Civil Disobedience*.

Thorpe, Ian (b.1982): Australian swimmer. A record six titles at 9th FINA world swimming championships at Fukuoka.

Tilak, Bal Gangadhar (Lokmanya) (1856-1920): Indian patriot and statesman. "Swaraj is my birthright", the revolutionary said. In Burma, as exile for 6 years. The British called him the 'Father of Indian unrest'. *Gitarahasyam*.

Tim Berners-Lee, Sir Tomothy John (b. 1955): The inventor of the World Wide Web. Named by Time magazine as one of the top 20 thinkers of the 20th century. Knighted in 2003.

Tipu, Sultan (c. 1750-'99): Indian prince, sultan of Mysore. French-backed wars against British. Defeated by Cornwallis. Killed when British stormed Seringapatam.

Titian (Tiziano Vecelli): (c. 1487-1576): Venetian painter. Sacred and Profane Love.

Tito (Josip Broz) (1892-1980): The Father of 'Modern Yugoslavia', Tito liberated his

country from the Axis invaders. The exponent of 'national communism', he was the first communist Prime Minister (1945) and President, 1953. Co-founder of Non-Aligned Movement.

Tolstoy, Leo (1828-1910): Russian novelist and writer on ethics and religion. *War and Peace*, *Anna Karenina*, *Resurrection*.

Toynbee, Arnold Joseph (1889-1975): English historian and reformer. *A Study of History* (1934-54) in 10 volumes. His uncle Arnold Toynbee who died in 1883 was a reformer (and historian) who worked among the poor.

Travolta, John (b.1954): US film actor. He starred in the wildly successful *Saturday Night Fever*.

Trevelyan, George Macaulay (1876-1962): English historian. *History of England*.

Trotsky, Leon (1879-1940): Russian revolutionary; Supported the Mensheviks against Lenin's Bolsheviks. Expelled from party. Assassinated.

Trudeau, Pierre (b. 1919): Prime Minister of Canada-1968-79, 1980-84.

Truman, Harry S. (1884-1972): U.S. President, 1945-53. Took the decision to drop the first atom bomb.

Tulsi Das (1532-1623): Indian poet whose Hindi masterpiece *Ram-Charit-Manas* (*the Ramayana*) is venerated by Hindus as the Bible is in the West.

Tunku, Abdul Rehman (1903-1990): Malaysian politician, first PM of the independent country of Malaya (1963-70). The 'father of Malaysian independence'.

Turner III, Ted (Robert Edward) (b. 1938): The man whose vision created CNN (Cable News Network) Married Jane Fonda.

Turner, Joseph (1775-1851): English painter. *The Fighting Temeraire*.

Tussaud, Madame (1761-1850): Swiss wax modeller. Opened a museum in London containing life-size models of famous people, which is still a major tourist attraction.

Churchill's Novel

Winston Churchill, British Prime Minister (1940-45, 1951-55) and author of *A History of the English-Speaking Peoples* and *The Second World War*, and winner of the Nobel Prize for Literature (1953), also wrote a novel 'Savrola'.

Tutu, Desmond (b. 1931): South African clergyman who advocated nonviolent resistance to apartheid. First black Anglican bishop of Johannesburg. Nobel peace prize.

Twain, Mark (pseudonym of Samuel Langhorne Clemens) (1835-1910): America's leading humorist who used his wit to comment on social, political and moral problems. *Tom Sawyer*, *Huckleberry Finn*.

Tyson, Mike (b. 1967): Youngest man to win the world heavy weight championship.

Usha, P.T. (b. 1964): The first Indian woman (and the fifth Indian) to reach the final of an Olympic event by winning her 400 m hurdles semi-final. Missed a bronze by 1/100 of a second. Created new Asian Games records in all events she participated in X Asian Games, Seoul. 101 international medals. Runs a sport academy.

Ustinov, Sir Peter (1921-2004): British actor, director and raconteur. Oscar award. *Dear Me*.

Vaidyanathan, Nirupama (b. 1977): First Indian woman to win a round in a Grand Slam tournament (Australian Open, Jan. 98).

Vajpayee, Atal Bihari (b. 1924): Prime Minister of India from 1998 to 2004. Brilliant parliamentarian,



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orator, poet and journalist. Freedom fighter and social worker. Leader of Opposition in Lok Sabha (1993). Headed BJP-led minority coalition govt. from May 16 to 28, 1996. Minister of External Affairs 1977-'79.

Van Gogh, Vincent (1853-'90): Distinguished Dutch painter - the first of the great modern Expressionist painters. Committed suicide.

Varma, Raja Ravi (1848-1906): One of the greatest early Indian artists, from the royal family of Kilimanoor, Kerala.

Vatsyayan, Sachidananda Hira-nanda (Agyeya) (1911-'87): Hindi writer, journalist. Gyanpith award, '78 (*Kitni Navom Me Kitni Bar*).

Vatsyayana (5th Century A.D.): Sanskrit writer who wrote the famous *Kamasutra* ('Art of Sex').

Venkataraman, R. (b. 1910): President of India, 1987-92. Vice-President, 1984-87. Was Union Minister (Defence, Finance) before.

Verne, Jules (1825-1905): French writer of science fiction. *Around the World in Eighty Days*, *Journey to the Centre of the Earth*.

Vespucci, Amerigo (1454-1512): Italian explorer, after whom America is named. Explored Venezuela.

Vicente, Gil (1465-1536): Portuguese playwright, regarded as the founder of Portuguese drama. *The Forge of Love*, *The Pilgrimage of the Aggrieved*.

Vicky (Victor Welsz) (1913-'66): German-born British cartoonist.

Victor Emmanuel II (1820-'78): First king of Italy.

Victoria (1819-1901): Queen of Britain and Empress of India. The monarch with the longest reign in British history (64 years).

Vidyasagar, Ishwar Chandra (1820-1891): Great Indian scholar and reformer. Fought for widow remarriage, higher education for women, and against child marriage.

Vijayan, O.V. (1930-2005): Political cartoonist and writer in Malayalam.

Khasakinte Ithihasam. Padma Bhushan.

Virgil (Publius Vergillius Maro) (70-19 B.C.): Roman epic poet. *The Aeneid*.

Visvesaraya, Mokshagundam (1861-1962): Engineer,

educationist and statesman. Was Dewan of Mysore. Bharat Ratna.

Vivekananda, Swami (1863-1902): A saint philosopher who made India's greatness known to the world. Disciple of Rama-krishna Paramahansa, saint (1836-86) who worked for the uplift of Hindu society. Established Sri Ramakrishna Mission.

Voltaire (the assumed name of Francois Marie Arouet) (1694-1778): French philosopher and writer; prepared the way for the French Revolution. *Candide*.

Wadia, Ardaseer Cursetjee (1808-'77): Mechanical and marine engineer, the first Indian Fellow of the Royal Society, London, at the age of 33.

Wagner, Richard (1813-'83): German composer, who made revolutionary changes in the structure of opera.

Walcott, Derek (b. 1930): West Indian poet and dramatist. *Omeros*. Nobel (1992).

Waldheim, Kurt (b. 1918): Austrian diplomat, President of Austria, 1986. Secretary-General of the United Nations, 1972-81.

Walesa, Lech (b. 1943): Polish trade union leader who became the country's President (1990). An electrician at the Lenin Shipyard in Gdansk in 1970, ten years later he led the strikers as leader of 'Solidarity'. Nobel Peace Prize.

Wallace, Edgar (1875-1932): English novelist and playwright; wrote detective thrillers. *The Four Just Men*, *The Ringer*.

Walton, Ernest (1904-'95): Irish scientist, who along with John Cockcroft, split the atom artificially for the first time, thus usher-



O.V. Vijayan

ing in the nuclear age in 1932. Shared Nobel Prize.

Walton, Sam (1918-'92): One of the world's leading departmental-store-retail business magnates. Owner of Wal-Mart stores chain.

Washington, George (1732-'99): First U.S. President, 1789-'97.

Watt, James (1736-1819): Scottish engineer and inventor after whom the watt as unit of power is named.

Webster, Noah (1758-1843): American lexicographer.

Wells, (George) Orson (1915-'85): American film actor, writer, director, producer, *Citizen Kane* (1941), *The Third Man* (1949).

Wells, Herbert George (1866-1946): English author. *The Time Machine*, *Kipps*, *The Outline of History*, *The Shape of Things to come*.

West, Mae (1892-1980): American vaudeville artist and film actress.

White, Patrick Victor Martin Sale (1912-90): Novelist, the first Australian to win a Nobel Prize for literature (1973). *The Tree of Man*, *The Eye of the Storm*.

Whitefield, George (1714-70): Founder of the Calvinistic Methodist Church in England.

Whitman, Walt (1819-'92): American poet. *Leaves of Grass*, *Drum Taps*. Known for his elegies to Abraham Lincoln, ("O Captain! My Captain!").

Whitney, Eli (1765-1825): American manufacturer, invented cotton gin.

Wiesel, Elie (b. 1928): Romanian-US novelist. Works reflect his experiences as a survivor of the Holocaust. Nobel Peace Prize, 1986. *Night*, *A Beggar in Jerusalem*, *The Forgotten*.

Wilde, Oscar (1854-1900): Irish author and dramatist, remembered for his flamboyant style and caustic wit. *A Woman of No Importance*, *The Picture of Dorian Gray*, *The Importance of Being Earnest*.

Wilhelmina (1880-1962): Queen of the

Netherlands from 1890 until she abdicated in favour of her daughter Juliana in 1948.

Wilkinson, John (1728-1808): British industrialist who found many applications for iron. Known as 'the great Staffordshire ironmaster'.

Williams, Venus (b. 1980) and Serena (b. 1981): Most successful tennis-playing sisters (USA). In 1999 won both French and US Open doubles titles. Venus beat Serena to win US Open 2001, and won Wimbledon in 2005.

Wilson, Shiny (b. 1965): Athlete, represented India in more than in 75 competitions, including four Olympic Games. First Indian woman athlete to enter semi-finals in Olympics. National and South Asian Champion in 800 m. Arjuna Award, Padma Shri.

Wilson, Sir Harold (1916-'95): British statesman, PM 1964-'66, 1966-'70, 1974-'76.

Wilson, Woodrow (1856-1924): U.S. President, 1913-'21

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tor, poet and journalist. Freedom fighter and social worker. Leader of Opposition in Lok Sabha (1993). Headed BJP-led minority coalition govt. from May 16 to 28, 1996. Minister of External Affairs 1977-'79.

Van Gogh, Vincent (1853-'90): Distinguished Dutch painter - the first of the great modern Expressionist painters. Committed suicide.

Varma, Raja Ravi (1848-1906): One of the greatest early Indian artists, from the royal family of Kilimanoor, Kerala.

Vatsyayan, Sachidananda Hira-nanda Gyeya (1911-'87): Hindi writer, journalist. Gyanpith award, '78 (*Kitni Navom Me Kitni*).

Vatsyayana (5th Century A.D.): Sanskrit writer who wrote the famous *Kamasutra* (Art of Sex').

Venkataraman, R. (b. 1910): President of India, 1987-92. Vice-President, 1984-87. Was Union Minister (Defence, Finance) before.

Verne, Jules (1825-1905): French writer of science fiction. *Around the World in Eighty Days*, *Journey to the Centre of the Earth*.

Vespucci, Amerigo (1454-1512): Italian explorer, after whom America is named. Explored Venezuela.

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Vicky (Victor Welsz) (1913-'66): German-born British cartoonist.

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Victoria (1819-1901): Queen of Britain and Empress of India. The monarch with the longest reign in British history (64 years).

Vidyasagar, Ishwar Chandra (1820-1891): Great Indian scholar and reformer. Fought for widow remarriage, higher education for women, and against child marriage.

Vijayan, O.V. (1930-2005): Political cartoonist and writer in Malayalam.

Khasakinte Ithihasam. Padma Bhushan.

Virgil (Publius Vergilius Maro) (70-19 B.C.): Roman epic poet. *The Aeneid*.

Visvesaraya, Mokshagundam (1861-1962): Engineer,

educationist and statesman. Was Dewan of Mysore. Bharat Ratna.

Vivekananda, Swami (1863-1902): A saint philosopher who made India's greatness known to the world. Disciple of Rama-krishna Paramahansa, saint (1836-86) who worked for the uplift of Hindu society. Established Sri Ramakrishna Mission.

Voltaire (the assumed name of Francois Marie Arouet) (1694-1778): French philosopher and writer; prepared the way for the French Revolution. *Candide*.

Wadia, Ardaseer Cursetjee (1808-'77): Mechanical and marine engineer, the first Indian Fellow of the Royal Society, London, at the age of 33.

Wagner, Richard (1813-'83): German composer, who made revolutionary changes in the structure of opera.

Walcott, Derek (b. 1930): West Indian poet and dramatist. *Omeros*. Nobel (1992).

Waldheim, Kurt (b. 1918): Austrian diplomat, President of Austria, 1986. Secretary-General of the United Nations, 1972-81.

Walesa, Lech (b. 1943): Polish trade union leader who became the country's President (1990). An electrician at the Lenin Shipyard in Gdansk in 1970, ten years later he led the strikers as leader of 'Solidarity'. Nobel Peace Prize.

Wallace, Edgar (1875-1932): English novelist and playwright; wrote detective thrillers. *The Four Just Men*, *The Ringer*.

Walton, Ernest (1904-'95): Irish scientist, who along with John Cockcroft, split the atom artificially for the first time, thus usher-



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ing in the nuclear age in 1932. Shared Nobel Prize.

Walton, Sam (1918-'92): One of the world's leading departmental-store-retail business magnates. Owner of Wal-Mart stores chain.

Washington, George (1732-'99): First U.S. President, 1789-'97.

Watt, James (1736-1819): Scottish engineer and inventor after whom the watt as unit of power is named.

Webster, Noah (1758-1843): American lexicographer.

Wells, (George) Orson (1915-'85): American film actor, writer, director, producer, *citizen Kane* (1941), *The Third Man* (1949).

Wells, Herbert George (1866-1946): English author. *The Time Machine*, *Kipps*, *The Outline of History*, *The Shape of Things to come*.

West, Mae (1892-1980): American burlesque artist and film actress.

White, Patrick Victor Martin Sale (1912-90): Novelist, the first Australian to win a Nobel Prize for literature (1973). *The Tree of Man*, *The Eye of the Storm*.

Whitefield, George (1714-70): Founder of the Calvinistic Methodist Church in England.

Whitman, Walt (1819-'92): American poet. *Leaves of Grass*, *Drum Taps*. Known for his elegies to Abraham Lincoln, ("O Captain! My Captain!").

Whitney, Eli (1765-1825): American manufacturer, invented cotton gin.

Wiesel, Elie (b. 1928): Romanian-US novelist. Works reflect his experiences as a survivor of the Holocaust. Nobel Peace Prize, 1986. *Night*, *A Beggar in Jerusalem*, *The Forgotten*.

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Wilhelmina (1880-1962): Queen of the

Netherlands from 1890 until she abdicated in favour of her daughter Juliana in 1948.

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Williams, Venus (b. 1980) and Serena (b. 1981): Most successful tennis-playing sisters (USA). In 1999 won both French and US Open doubles titles. Venus beat Serena to win US Open 2001, and won Wimbledon in 2005.

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est ever to win the sport's career Grand Slam (all 4 majors), at age 24, when he won the British Open, 2000

Woolf, Virginia (1882-1941): English writer who developed the stream-of-consciousness technique. *To the Lighthouse, Mrs. Dalloway, The Waves, Orlando.*

Wordsworth, William (1770-1850): English Romantic poet, interpreter of nature in her many moods. Poet Laureate, 1843. *The Prelude, Sonnets.*

Wouke, Herman (b.1915): US novelist. *The Caine Mutiny.* Pulitzer prize.

Woulfe, Peter (1727-1803): British chemist after whom glass laboratory bottle with two or more necks is known.

Wright, Frank Lloyd (1869-1959): American architect who gained fame for building the Imperial Hotel in Tokyo that withstood the 1923 earthquake.

Wright, Orville (1871-1948) and his brother Wilbur (1867-1912): American inventors and pioneers in aviation. The two brothers were the first men to design and fly a powered, man-carrying airplane.

Xerxes (c.519-465 B.C.): King of Persia, 485 to 465 B.C.; a great commander; assassinated.

Xiaoping, Deng (1904-'97): Chinese politician rehabilitated in 1977. The country's senior leader until death.

Yadav, Santosh (b. 1969): An Indo-Tibetan Border Police officer, the only woman in the world to have climbed the peak twice ('92-'93).

Yashpal, Prof. (b. 1926): Scientist, UGC Chairman, missionary of scientific thinking. His TV show 'Turning Point' was very popular.

Yeats, William Butler (1865-1939): Irish lyric poet and playwright. *The Hour Glass, Deirdre, The Second Coming.*

Yeltsin, Boris (b. 1931): President of Russia (1991-99). The first leader of Russia

ever to be chosen by popular vote. Presided over the dissolution of the Soviet Union.

Yew, Lee Kuan (b.1923): Singaporean statesman. Became the first PM of Singapore in 1959 and held the post for 31 years. Dominated the affairs of the region for three decades.

Young, Thomas (1773-1829): English physicist who uncovered some of the mysteries of light and colour. He spoke nine languages, including Latin, by the age of 16.

Zedong, Mao (1893-1976): Architect of the Chinese Revolution and founder of the People's Republic of China. Experiments: 'Communes', the 'great leap forward' and the 'cultural revolution' ('65-'69).

Zeppelin, Ferdinand (1838-1917): German inventor who built the first rigid frame motor-driven airship (1900); subsequent models named after him.

Zhou En-lai (1898-1976): Chinese revolutionary statesman. Formed close partnership with Mao Zedong. Prime Minister of the new China in 1949.

Zidane, Zinedine (b.1972): One of the greatest footballers of his generation. French Captain. Transferred from Juventus to Real Madrid in 2001. The transfer fee was \$66m. which made him the most expensive football player in history. In 2006 World Cup, he won the Golden Ball. Retired from competitive football in 2006.

Zola, Emile (1840-1902): French novelist. *L'Assommoir, Nana, Germinal.*

Zoroaster (Zarathustra) (6th cent B.C.): Persian founder of the Parsee religion. He was a monotheist, and saw the world as a struggle between good and evil.

Zwingli, Ulrich (1484-1531): Swiss religious (Protestant) reformer.

Zworykin, Vladimir (1889-1982): Russian inventor of the iconoscope, first electronic-scanning television camera.

Dictionary of Definitions

Abacus: Archaic mathematical tool used in ancient times in the Middle and Far East for addition and subtraction. The first calculating machine, it is still used in China and Japan.

Ablation: A medical term denoting the removal of dead or diseased part of body.

Absolutism: A political system based on absolute and uncontrolled political power, which they believe derived from God's absolute sovereignty over human destiny.

Abulia: The state of mind characterised by lack of will or motivation and inability to make decisions.

Acarology: Branch of Zoology dealing with ticks and mites.

Acid Rain: A phenomenon in which sulphuric acid and nitric acid are formed in the atmosphere due to the reaction of rain clouds with atmospheric gases like sulphur dioxide and nitrogen dioxide.

Acrostic: A poem in which the first letters of each line taken in order to form a name or sentence.

Acromegaly: Deformity caused by excessive secretion of growth hormone from anterior pituitary gland. It results in the enlargement of hands, fingers, feet, ears, nose etc.

Adenoma: Noncancerous tumour of any kind.

Adipose: A layer of tissue beneath the skin and around kidneys which acts as insulation against cold and a storage of energy.

Advertorial: A journalistic term coined by combining the words advertisement and editorial. It denotes articles or features which are paid by advertisers. Usually items of this category are commercial in nature and have little news value.

Aerobics: A system of physical exercise done to the tune of music. It also includes other usual exercises like walking, jogging, cycling, swimming etc. Aerobics is most fashionable among the urban youth.

Aerocapture: A technique for placing a spacecraft in orbit around a planet by taking advantage of planetary atmosphere. No expenditure of chemical propellants is involved in this proposed method.

Aerodynamics: Science dealing with the study of motion of air and gases. This is most crucial in the designing of aircraft, automobiles, trains, ships, bridges and high rise buildings. Sir Isaac Newton's laws of mechanics is considered as the beginning theories of Aerodynamics.

Aeronautics: The science and art of design and production of space vehicles. It includes the design, production and maintenance of aircrafts and other related instruments and engines.

Aerostatics: The branch of statics that deals with gases in equilibrium and with gases and bodies in them.

Agent Orange: Military code name for a weed killer sprayed by USA during the Vietnam war over the jungles and farms. Agent Orange is normally used to defoliate trees and shrubs and to kill weeds. The steel drums that stored this chemical were marked with big orange stripes and hence the name originated.

Agnosticism: A term originated from the Greek word agnostos, which means not knowing. It is the belief that ultimate reality like the existence of God can't be known. It reflects the view that reason and scientific method should be applied in the

Aggraphia : It is the loss of ability to write despite normal functioning of hand. This is caused by the damage of cerebrum.

Agronomy: The scientific study of soil management and agricultural production.

Agrostology: The study of grasses.

Ahura Mazda: The supreme God of Zoroastrians. Ahura means Lord and Mazda means Wisdom. According to Zoroastrian faith, Mazda is pure goodness and is the creator of the seven creations comprising man, cattle, fire, earth, sky, water and plants.

Akinesia : The loss of movement almost completely due to the loss of power in a group of muscles. This is caused by damage to nerves supplying that group due to reasons like stroke.

Albinism: An abnormality caused by mutation of pigment controlling genes. Albinos (person or animal affected with albinism) have abnormally white skin, light hair and pink eyes.

Alexia : A type of blindness in which the affected person is unable to recognize and read written words.

Algorithm: Any procedure involving a series of steps used to find the solution to a problem.

Alliteration : Use of two or more words with the same initial letters in succession or a succession of the same initial letters in a passage. Eg. I sing books, of blossoms, birds, and bowers (Robert Herrick).

All Saints Day: A holy day observed by Christians all over the world on November 1. This day was first observed in AD 609. It honours all Christian saints, especially those who do not have days named after them.

Alta Vista: Popular free text search engine in the internet. It was launched in 1995 by the Digital Equipment Corporation.

Alzheimer's Disease: A disease affecting brain which results in loss of memory and other mental abilities. It results from the gradual destruction of brain cells. Inherited abnormalities in brain play a major role in

most of the victims of this disease. It is very rare among persons below 40 but affects 20 to 30 percent of persons above 85 years of age.

Ambrosia: A mystical substance believed to be eaten by Gods of Greek and Roman mythology. It is commonly believed that any one who eat ambrosia can become immortal.

Amino Acid: The main constituent of protein which is essential to the manufacture of hormones, tissues and other body products. Natural food items like milk, egg, pea, seed etc are rich sources of protein.

Anabasis (resuscitation): Restoring to life from a deathlike condition.

Anachronism: Representing something as existing at other than its historical time.

Anagram: A word or phrase formed by transposing letters of another word or phrase.

Anemology: The science of wind.

Angioplasty : The method of treating stenosis or occlusion of a blood vessel or a heart valve by using a balloon into the constricted area.

Angiology: The science of blood and lymph vessels.

Anima : A person's real inner being as opposed to the character presented to the world. It also denotes to the feminine soul or inner self of a man.

Animus : The masculine inner self of a woman.

Angstrom Unit: A unit of length equal to one hundred-millionth of a centimetre. It has now been replaced by the nanometre.

Anthropology: The study of man including his physical and mental constitution, nature and civilization. Physical anthropology deals with the biological aspects of man whereas the cultural anthropology examines the behavioural patterns and social life of humans.

Anti-novel : A work of fiction that rejects the conventional elements of a novel.

Antithesis : Placing together of sharply contrasting ideas. Eg. They died what we might live.

Aphorism : Terse, witty, pointed statement on a general principle. It is a maxim or concise sentence containing precept or important truth. Eg. Anybody who hates children and dogs can't be all bad (W.C. Fields).

Apathy : The lack of interest in oneself or one's surroundings.

Aphasia : The inability of a person to speak and write due to cerebral dysfunction.

Aphonia : Total loss of voice due to reasons like sudden emotional stress.

Aphrodisiac: Drugs or substances capable of increasing sexual excitement and performance.

Applique Art: An intricate handicraft originated in the village, Pipli in Orissa. The wall hangings, bed sheets, umbrellas, bags, ladies' dresses etc prepared by applique craftsmen are enthralling with its grace and artistry.

Appropriate Technology: It is a concept originated as a reaction to over industrialization and massive industrial production. Theorists of appropriate technology advocate that the third world countries should use only that technology which is appropriate to their economy. It underlines the concept, 'small is beautiful' and supports Gandhian Economics which is based on concepts like decentralization, cottage industry and sustainable development.

Aqualung: A device that allows a diver to breathe under water.

Aqueduct: Artificial channel for carrying water from one place to another. It can be built with concrete, steel, wood and the like and in some cases tunnels and canals are constructed. In aqueduct the outlet will be much lower than the source and hence gravity alone carries the water.

Arbitrate: Practice of switching short-term funds from one investment to another in order to obtain the best return. Also the act of buying at the lower price and reselling at the higher price.

Arboriculture: Cultivation of trees and vegetables.

Archaeology: The scientific study of the history of ancient societies from their existing remains or antiques.

Artificial Insemination: The technique used to induce pregnancy in women who are unable to conceive naturally. In this method of insemination the semen is inducted into the uterus not by sexual intercourse but through artificial means. This method was originally developed and extensively used to breed cattle with improved characteristics.

Artificial Intelligence: Computer programmes capable of taking decisions and actions similar to human intelligence.

Arya Samaj: A reformist movement founded in 1875 by Dayanand Saraswati based on the slogan, 'back to the Vedas'.

Asceticism: A religious practice of voluntary, sustained self discipline and denial of physical and psychological desires for sublime spiritual attainment. Those who practice this called ascetics.

Astigmatism: A visual defect in which both nearby and distant objects appear blurred. It is caused by an abnormal curvature of the cornea which usually affects both eyes.

Astronomy: The scientific study of celestial bodies such as sun, moon, stars, planets etc.

Atlantic Charter: Principles agreed by British Prime Minister Winston Churchill and US President Franklin D Roosevelt in Placentia Bay, Newfoundland in 1945 August when the Second World war was raging Europe.

Atomic Clock: The most accurate device available today for measuring time. It is based on a standard called UTC (Co-ordinated Universal Time) in which the average of atomic readings from 18 different centres of the world is calculated. This is expected to be accurate time for a quarter million years.

Aurora: A natural display of light in the form of arcs, clouds, streaks, flickers and the

e in the sky which is visible only in night.

Authoritarianism: A political system with ruthless control over the people which it believes essential for the welfare of the society. It never accepts individual freedom or civil liberties. Authoritarian systems can be of any type ranging from capitalist to socialist or from religious to business.

Autocracy: It is a perverted form of absolutism in which the power is concentrated in an individual who acts arbitrarily without any concern for the people's welfare.

Automation: The use of electronic equipments, machines, computers etc. to perform tasks normally done by people.

Autopsy: Dissection and examination of a dead body to determine cause of death. Also known as postmortem or necropsy.

Avant Garde: Those who create or support the newest ideas and techniques in an art.

Avogadro's constant: The physical quantity of molecules in a mole or of elementary charges in a faraday.

Axiomatics: A scientific method used to arrive at logical deductions from accepted facts.

Ayatollah: A Shiite Muslim title. It means 'sign of God'. Particularly associated with the Islamic Republic of Iran.

Aztec: A civilisation developed between the 12th and 16th century by the Tenochca tribe, migrated into the valley of Mexico from the Azatlan region in the north.

Balance of payments: A tabulation of the credit and debit transactions of a country with foreign countries and international institutions.

Balance of Power: A foreign policy principle in which alliances of nations are formed to prevent one nation from achieving overwhelming power in any one part of the world.

Balanced growth: A particular form of growth process of the economy in which all the main economic aggregates - national income, consumption, stock of capital, employment-

grow at the same percentage rate over time.

Ballad: A short narrative poem or a slow love song that tells a story in popular music adopted for reciting and singing.

Ballet: A European theatrical dance form with its own characteristic techniques like leaps and pirouetting on toes. It was created by Italian masters in France in the 15th century.

Bamboo Curtain: The controls and restrictions imposed by Mao Zedong in communist China to prevent its population from having exposure to the outside world, especially capitalist western societies.

Bandung conference: A conference of Afro-Asian leaders held in Bandung, Indonesia, to assert their identity independent of the big powers.

Bandwidth: The quantity of information that can be transmitted through a communication line. It denotes the capacity of the line, measured in bits per second.

Baptism: A religious practice in which washing or ablution with water is performed. It symbolises purification, washing away of sins and the start of a renewed life. Baptism is a most important ceremony for Christians.

Barbecue: Cooking of meat, fish or vegetables in metal frame over an open fire. Originally it referred to the roasting of a whole pig, ox or other large animal over wood or charcoal fire in an open place.

Baroque: A style of art and architecture, named after the Italian painter Federigo Barocci. This was originated as a reaction against reformation movement and classicism and was directly promoted by the Catholic Church.

Barter: Direct exchange of goods and services without the use of money.

Base period: The time period used as the base from which to calculate an index number or a growth rate.

Bathos: Sudden descent into the ridiculous, often for comic effect. E.g. He is a gentleman; look at his boots (George Bernard Shaw).

Beat generation: A group of young Americans, who, fed up with Western values turned to Eastern religion for inspiration. They adopted a Bohemian lifestyle and tried experimental literary forms.

Benelux: An economic alliance formed in 1948 by three nations - Belgium, Netherlands and Luxembourg. The term Benelux is coined by the first letters of each country's name. It was formed to create a common foreign trade policy and free movement of goods and services.

Beriberi: A disease caused by deficiency of thiamine (vitamin B). It causes stiffness of lower limbs, paralysis, and pain and ultimately the victim becomes too sick to do anything.

Berliner Ensemble: A theatre company in East Berlin. Founded by Bertolt Brecht, playwright and theatre director, Berliner Ensemble was a major influence on 20th century theatre.

Bernoulli disk: A form of computer magnetic disk storage, named after Daniel Bernoulli, the Dutch mathematician. The disk can be removed and replaced.

Best boy: The charge-hand electrician working under the gaffer, who is the chief electrician in a film or TV production crew.

Bibliography: A list of books or articles about a subject or an author.

Bikini: A small and isolated atoll in the northwestern Marshall Islands group in the Pacific Ocean. Bikini became famous after the second world war following a series of nuclear tests by US. The first hydrogen bomb was also tested here in 1956.

Big Bang: A theory explaining the origin of universe. According to this theory the universe originated from a sudden explosion of energy 10,000 -15,000 million years ago and started expanding to all directions. Over millions of years the expanding mass formed into particles, then into gas. Due to gravity gas became compressed and broken up to form galaxies planets and stars.

Biodegradability: The capacity of a substance to decompose by bacterial or biological processes into nature friendly elements.

Bloenergetics: A system of psychoanalytic therapy developed by Austrian psychologist Wilhelm Reich. This system also known as character analysis is based on the theory that sexual frustration is the root cause of neurosis. This theory equates sexual energy with a universally existing life force called 'orgone'.

Bloengineering: A branch of engineering that develops devices and equipments to replace human body parts.

Bioethics: The study of the ethical problems arising from scientific advances.

Biological clock: A mysterious timing system that operates in plants and animals. This clock keeps accurate time of days, weeks, months and years and times the physiological activities of living things to keep them in rhythm with the environment. Reproductive cycles, menstrual periods, breeding seasons, sleeping times etc are synchronised with the help of this clock. The migration of birds and blossoming of flowers are all set by the built-in clocks.

Biologic Rhythms : Cyclical variations in physiological and biological functions, level of activity and emotional state.

Biometrics: The use of statistical and other mathematical methods of analysis on data pertaining to living organisms.

Biometry: The application of mathematics to the study of living things.

Bionics: A term coined with the first syllable of biology and the last syllable of electronics. This is applied to a variety of scientific projects involving biological systems, engineering systems and artificial intelligence. Bionics study biological processes like storing of solar energy by plants, light emission by fireflies etc. Machines are then devised to simulate the processes for technological application.

Blopsy: Microscopic diagnosis of a living

Caucus: In US caucus is an open meeting of party policy makers, who take crucial decisions of a political party. But in India caucus means an inner group engaged in behind the scene operations within a political party.

Celestial Sphere: Imaginary sphere surrounding the Earth on which all heavenly bodies appear to move.

Celsius: The universally accepted standard of measuring temperature. Celsius is a centigrade scale that divides the freezing and boiling points of water into 100 parts. This was developed by Swedish astronomer Anders Celsius in 1742 which soon replaced the earlier system of Fahrenheit.

Censure Motion: A motion moved against the government in general censuring any of its policy or particularly against a minister or ministers.

Census: A count, usually providing social, demographic or economic information, of the total population of the group studied.

Chain letter: A letter circulated among people by being copied and sent to others who do the same.

chamber music: Classical music written for a small number of instruments.

Chartism: A political movement of the British working class during the early 19th C. It was based on liberal ideology and it considered political reform essential for social and economic development.

Checks and Balances: A constitutional system in democracies as a safeguard from possible misuse of power.

Chemotherapy: It refers to the therapy using chemical substances in the treatment especially in cancer. Chemotherapy is widely used to check the malignant cell growth in different types of cancers.

Chinese Puzzle: A game in which you have to solve the problem of fitting many different pieces together, especially boxes inside other boxes.

Chicken Guinea (Chikungunya) : It is a

rare form of viral fever caused by the 'alphavirus' transmitted to human by the bite of infected mosquitoes. The term Chikungunya is derived from 'makonde' meaning 'that which bends up' in reference to the stooped posture developed as a result of the arthritic symptom of the disease.

Chipco Movement: A popular environment movement in India started by Sunderlal Bahuguna in 1972. Chipco is a Hindi Garhwali word meaning embrace. The first direct action of this movement took place in 1973 at the Mandal forest in the Chamoli district in Uttar Pradesh when the villagers marched in procession and put their arms around 50 ash trees marked by the forest department for felling. Initially it aimed at protection of trees but later the campaign turned to be a wide movement for alternative development.

Chlorophyll: The green pigment in plants that absorbs light for use in photosynthesis. It is also found in some simple organisms like algae.

Chronobiology: The study of duration of life.

Circumcision: The practice of removing the foreskin of male genital organ. In some societies it is done in females also, in which all or part of the external sex organ is cut off. Circumcision is advocated on the ground of reasons like sacrifice, admission to one's social group, preparation for marriage, symbolic recognition of the dangers of intercourse or simply as a hygienic measure.

Classicism: A movement in art and life characterised by reason, order, balance and simplicity.

Clearing House: Any institution that settles mutual indebtedness between a number of organisations.

Cleopatra's Needle: Either of two ancient Egyptian obelisks in London and in New York. These were gifts from the ruler of Egypt (1878) to England and the USA.

Client State: A country that is economically or politically dependent on a more powerful state.

Climax: A series of statements in rising order of intensity. Eg. I came, I saw, I conquered (Julius Caesar).

Cliffhanger: In a competition, a situation in which the outcome is uncertain until the very end.

Climax: A series of statements in rising order of intensity. Eg. I came, I saw, I conquered (Julius Caesar).

Closed Economy: An economy assumed not to take part in international trade so that it has no exports or imports.

Closed User Group (CUG): A group of persons with access to communication and information facilities that are not available to non members of the group. Eg. Free CUG calls provided by some mobile phone companies.

Cloudburst: A sudden and heavy rainfall for a short time in a small area. Usually cloudbursts are accompanied by thunderstorms.

Coeducation: System of teaching male and female students together in the same class or school.

Collage: Objects such as newspaper, string or cloth which are pasted onto canvas or paper.

Collateral: Money or property which is used as a guarantee that someone will repay loan.

Collective Security: In this system of international security, the member nations agree to take joint action against a nation that attacks any one of them.

Colloid: A state midway between a suspension and a true solution.

Colour Blindness: Inability to differentiate all colours apart. This is also known as daltonism. A normal eye has three visual cells called cones helping to identify different colours. But the colour blinded eyes lack the cones completely or partially.

Communication Gap: A situation in the

process of communication when no meaningful exchange of ideas or information takes place. This may be due to the physical or mental differences between the parties involved in the communication.

Computer Literacy: Knowledge regarding the basic principles of computers, programs, softwares, related expressions and being able to use computers.

Concentration Camp: A place where 'political enemies' are imprisoned usually without trial. The term was first used by Britain for the prison camps set during the Boer war around 1900. Those setup by Nazi Germany in which an estimated 7 to 8 million prisoners were kept, were notorious.

Conditional Access System (CAS): A transmission system in which the TV signals are encrypted in order to prevent interception or defaulting by the users. A set top box is used to decrypt the signals.

Constructivism: An art movement developed in Russia around 1920, in which industrial materials are used to create objects.

Consumer Credit: Short-term loan to the public for the purchase of specific goods.

Consumer's Sovereignty: This exists when resources are allocated in accordance with consumers' preference as opposed to state direction.

Continental System: The blockading system signed by Napoleon to weaken Britain by the destruction of British commerce.

Contras: The counter revolutionary force that sought to overthrow the Sandinista government in Nicaragua.

Convertibility: A currency is said to be convertible when it may be freely exchanged for another currency or gold.

Conveyor belt: A continuously moving strip of rubber or metal which is used in factories for moving objects along.

Cosmology: Study of the universe, its origin and structure, the nature of time and space and the essential character of natural laws.

Cost of living: The average amount of money that each person in a country needs to spend on food, housing and clothing.

Countertenor: A man who sings with a high voice that is similar to a low female singing voice.

Coup d'état: An attempt to get rid of the President or the government of a country.

Court Martial: Military court dealing with cases relating to members of armed forces and civilians employed in military bases. These courts follow normal legal procedure and the accused is considered innocent until he is found guilty.

Convergence of Media : Technology in which multiple media come together to form a single media with the advantages and features of all of them. Normally this means more features than the conventional media in less space and size. Eg. Mobile phones incorporated with digital camera, MP3 player, camcorder, voice recorder etc.

Crinology: The science that deals with skull.

Credit: Granting the use or possession of goods and services without immediate payment. There are three types of credit: (a) Consumer credit; (b) Trade credit and (c) Bank credit.

Cryogenics: The science dealing with the production, control and application of very low temperatures.

Cryptography: A branch of study dealing with codes and deciphering with the objective of maintaining privacy and secrecy of communication. Initially it was used for military and other strategic purposes. But with the advent of information technology it assumed wide commercial importance. Now it is commonly used in e-commerce, e-banking and other IT related areas.

Crystal therapy: A method of treatment which uses precious and semi-precious stones. Stones are believed to have vibration patterns that can increase human body's energy or correct imbalances.

Culture Shock : The feeling of psychological alienation and shock when human beings are separated and transplanted to a totally different environment.

Cuneiform: A system of writing used in ancient Middle Eastern Civilizations. The word cuneiform, derived from the Latin word *cuneus*, means wedge. The cuneiform characters are shaped like wedge and this script was used by Sumerians, Babylonians etc.

Cup Tie: An elimination match in a sporting contest played for a cup.

Currency: Notes and coins that are the 'current' medium of exchange in a country.

Curtain Raiser : Journalistic term to denote background stories and features of a forthcoming event published in order to create enthusiasm.

Cybernetics: The study of communication and control in machines and animals. Norbert Weiner, an American mathematician introduced the term cybernetics in 1948. It mainly deals with the similarities in the functioning of human body and machines. The main characteristic of any communication is feedback which is relevant both to human beings and machines.

Dactyliology: The technique of communication by signs made with the fingers. It is generally used by the deaf.

Dactylography: The study of fingerprints for the purpose of identification.

Database: Database is a collection of documents or records of identical characteristics. The user can search and retrieve documents from the database.

Dear Money: High rates of interest. A 'dear money policy' carried out by a monetary authority would be one of restricting the money supply in the interest of reducing inflation.

Death-rate: The number of deaths occurring in any year for every 1000 of the population.

Sum of money or other property
by one person or organisation to

Bel: The unit by which the loudness
d is measured. The sound which is
audible to human ears is taken as the
r measuring any other sound. The
level of aircraft engine is 120 db.
above 130 db is very painful to ears.
pher: Decoding of an encrypted or
d message into actual message in
language.

lit: An excess of liabilities over assets,
n expenditure flow over an income

ation: A reduction in the general
prices.

rium : A state of mental confusion
erised by disordered brain function,
to understand events or remember
increased anxiety, restlessness, sud-
changes in mood etc.

hlc Oracle: Oracle is the divine an-
prophecy given as a reply to questions
oly shrines in Greece. Delphi, a town
ce is the seat of the famous Apollo
which is believed to be the centre of
The Oracle of Delphi is the most cel-
one in Greek history and mythology.
lly the oracles were given by Goddess
ut after Apollo took over the temple
cles were delivered by a priestess.

ography: A science of study dealing
e statistical study of population with
to their size, structure and develop-
t covers areas like fertility, mortality
e impact of factors like education,
size, marriage, racial characteristics
he growth of population.

drology: The study of trees.

gue: A disease caused by a virus
by mosquitoes. Symptoms of this
are fever, headache, muscle pain,
ain, running nose, sore throat, skin
is also known as breakbone fever.

Deontology: The study of moral respon-
sibilities.

Depression: A severe trough in the busi-
ness cycle where there is widespread and
sustained unemployment.

Desalination: Removal of the salt con-
tent from sea water in order to make it usable
for human and industrial needs. Several meth-
ods are used to desalinate water. A common
method of desalination is the induction of ion
exchange solids into water and then forcing
the water through a membrane. Today bil-
lions of gallons of water is produced every day
from sea water worldwide. It is inevitable to
many arid regions with access to seas.

Despotism: A form of government in which
all power is concentrated in the ruler and he
commands unlimited authority over the people.
Despots may not be harsh or cruel or anti
people but they never heed for public opinion.
Many despots in the history were actually
'enlightened', but they used greatest power in
maintaining their authority and supremacy.

Devaluation: the reduction of the official
rate at which one currency is exchanged for
another.

Developing Country: A country that has
not yet reached the stage of economic devel-
opment characterised by the growth of
industrialisation, nor a level of national in-
come sufficient to yield the domestic savings
required to finance the investment necessary
for further growth.

Dewey Decimal System: A system of
classification used in libraries for storing and
retrieval of books. In this a common class num-
ber is allotted to all books under one subject
and then sub categories are created under that
number. Melvil Dewey, an American Librarian
devised this system in the late 19th c.

Dialogue : A conversation between two
persons

Diaspora: Literally diaspora means dis-
persion. It originally refers to the predica-
ment of Jews since the mass exodus in 586 BC

following the conquest of their Kingdom by Babylon. Now it is used to denote any people so dispersed at any part of the world.

Diathermy: Method of treatment for disorders like muscle pain, muscle strain, joint pain etc. by creating heat energy in tissues beneath the skin.

Dictatorship: A form of government in which the political power is concentrated in one individual without any constitutional provisions against it. Dictatorship invest all power in a single person or political party. Dictators demand blind obedience from the people for the goals they set; like unity of the nation or development of the society etc. Dictators usually arise out of military coup, triumph of political movements or following war. Dictatorship usually degenerates to despotism and tyranny.

Diplopia (double vision): Perception of two images of an object usually caused by eye-muscle paralysis.

Direct taxation: Taxation on individuals or companies which is paid directly by them or through their employer to the inland Revenue. In general, direct taxation is levied on wealth or income.

Dirge: A mournful song or poem for the dead.

Disharding: The running down of stocks of goods or money which have been accumulated by hoarding.

Disinflation: The reduction or elimination of inflation.

Disposable Income: Personal income including transfer payment after all direct taxes have been deducted.

Division of Labour: The specialisation of workers in particular parts or operations of a production process.

Domesday Book: The first official record about the land owned by people in England. The census was conducted and recorded in 1086 on the orders of William the Conqueror who conquered England. His purpose was to

assess how much land he owned and how rest was divided.

Donor Site: Area from which tissue collected during surgical procedure such as for a graft.

Dossier: Set or bundle of documents relating to a particular person or happening.

Double Jeopardy: Subjection of an accused person to repeated trial for the same offence. In India, no person can be prosecuted and punished for the same offence more than once.

Double Taxation: The situation in which the same tax-base is taxed more than once.

Draconian: A law or governmental action which is unreasonably severe or much more than what is necessary or right.

Drug Holiday: A medical term denoting the discontinuance of a drug for a limited period of time for evaluating the effect or side effect.

Drug Tolerance: Repeated use of some substance, drug or narcotics results in a condition in which larger and larger doses are required to produce the same psychological or physiological effects obtained earlier from smaller doses.

Dry Dock: A dock in which a ship can be taken out of water for repairing the parts below waterline.

Dry Farming: The process of growing crops in semi arid regions without irrigation and sufficient rainfall.

Dumping: The sale of a commodity on foreign market at a price below marginal cost.

Duopoly: The market situation in which there are only two sellers of a particular good or service.

Duopsony: The market situation in which there are only two buyers of a particular good or service.

Durable Goods: Consumer goods like washing machines, motor cars, TV sets, which yield services or utility over time rather than

being completely used up at the moment of consumption.

Easter Lily: A tall plant with long pointed leaves and large, fragrant, trumpet shaped white flowers. It is found all over the world and is considered as a sign of Easter.

Echolocation: The determination of the position of an object by the emission of sound waves which are reflected back to the sender as echoes.

Ecology: Biological science dealing with the study of organisms in their environments, social behaviour, conservation and adaptation of organisms.

Econometrics: A branch of economics that applies mathematics and statistics to economic theory. The analysed data and findings are very much useful for framing economic policies and decisions.

Economic Value Added (EVA): It measures the profit that a company earns over the cost of capital. Companies use this financial metric to evaluate the economic value they are generating for a given amount of capital employment.

Economies of Scale: These exist when expansion of the scale of productive capacity of a firm or industry causes total production costs to increase less than proportionately with output. As a result, long run average costs of production fall.

Eczema: Inflammation of skin with redness, soreness, itching and discharge of serous fluids.

Edutainment: Media programmes or contents which are a blend of education and entertainment intended to educate the users while entertaining.

Eklitics: The science of human settlements, including town and country planning.

Elasticity: The measure of degree of responsiveness of one variable to changes in another.

Electrolysis: Chemical transformation of a substance induced by passing an electric current through it. Negative and positive

charges interact and alter the electron composition of the substance. Electrolysis is commonly used in metallurgy for extracting metals from ores.

Electromagnetism: A branch of physics that studies the relationship between electricity and magnetism.

Elegy: A poem usually reflecting death, especially death of a friend. 'Elegy Written in a Country Churchyard' by Thomas Grey is a world famous elegy.

Embalming: A chemical process by which dead bodies are preserved.

Embezzlement: Offence committed when someone entrusted with another's money or property illegally takes it for personal use. It is different from robbery.

Embossing: The process by which a raised design is stamped or pressed on the surface of materials like metal, leather, wood, paper etc.

Embourgeoisement: When workers get fair wages and their income rises they began to imitate the middle class by that shedding their revolutionary ideas and support to revolutionary parties.

Emoticon: Symbols or pictures used in computer communications to convey emotions.

Empathy: Awareness about the meaning and significance of the feelings, emotions and behaviour of another person. It is the projection of one's own consciousness into that of another.

Employment, Full: The economy is said to be at full employment when everyone who wishes in work at the going wage rate for his type of labour is employed but because it takes time to switch from one job to another there will at any one moment be a small amount of unemployment.

Encephalitis: Inflammation of the brain. It is caused by virus infection, bacteria, harmful chemicals and tiny parasites. Symptoms, fever, headache, muscle weakness, etc. are the symptoms of encephalitis. jerky movements, paralysis

n speech, hearing, seeing and swallowing and even death.

Encyclical: Letter from a Christian leader, particularly the pope, which is intended for distribution among churches.

Entomology: A branch of zoology concerned with the study of insects.

Entrepreneur: The name given in economic theory to the owner-manager of a firm.

Epigram: A short, witty poem or pointed saying characterised by compression, polish, balance and clarity.

Epilogue: Concluding section of a book, play, film, television programme etc usually as a comment on what has happened.

Epiphany: A Christian festival held on January 6, in memory of the coming of Magi to the Infant Jesus at Bethlehem.

Epitaph: Memorial inscription on a tombstone or other monument to the dead.

E-publishing: Production and distribution of different media products in digital format. E publishing is similar to the traditional print publishing but the content distribution in this system is done through different storage devices or through computer networks.

Equilibrium price: The price at which a market is in equilibrium.

Equilibrium: A state in which forces making for change in opposing directions are perfectly in balance so that there is no tendency to change.

Eschatology: The study of death, destiny.

Estate duty: A tax payable on a person's property at his death and before it passes into the hands of others.

Ethnology: A branch of anthropology that deals with the origin, distribution and distinguishing characteristics of the race of mankind.

Etymology: The study of the origin and development of words.

Eugenics: The study of the production of better offspring by the careful selection of parents.

Eulogy: A writing or speech in praise of a person

Euphemism: Polite or inoffensive way of saying something unpleasant. Eg. Unmentionables for underclothes. Father in law's house for jail. Working woman for prostitute.

Euthanasia: The practice of painlessly killing people who have incurable or painful diseases or disabilities. Also known as mercy killing, it is done when the incurably ill people ask a doctor or relative to put him to death.

Euthenics: the science of improving the human species through control of environmental factors.

Excerpt: An extract or selection from a book or writing.

Exchange Rate: The price (rate) at which one currency is exchanged for another currency for gold or Special Drawing Rights.

Excise Duties: Taxes levied upon goods produced for home consumption.

Exobiology: A branch of biology that deals with the search for extraterrestrial life, especially intelligent life, outside our solar system. Exobiology is sometimes called xenobiology or astrobiology.

Exosphere: Outermost part of a planet's atmosphere.

Exports: The goods and services produced by one country which are sold to another in exchange for the second country's own goods and services, for gold and foreign exchange or in settlement of debt.

Extradition: The handing over by a foreign state of a person, accused of a crime, to the state where it was committed. Extradition is done through a treaty existing between independent nations.

Fabianism: A socialist movement in England with the objective of reconstructing society in accordance with the highest moral precepts. It was originated in London in 1884 with the formation of the Fabian Society.

Factors of Production: According to Marshall, these are 'the things required for

making commodity'. These inputs are grouped into land, labour and capital.

Falconry: A sport item popular in gulf countries in which natural predators like falcons, hawks and eagles are specially trained to kill prey and return to the gloved wrists of owners. The peregrine falcon, which is the world's fastest bird that can swoop on a prey at 240 kmph, is the most prized bird in falconry. This blood sport known in the east as long ago as 2000 BC, is a favourite hobby of Arab Sheikhs.

Fibre Optics: A branch of physics that utilises a fine glass or plastic fibre with refraction properties that allow light to pass around curves and without loss of intensity. With this technology it is possible to convert an electrical signal into a light signal, pass it through fibre, and reconvert it into electrical signal at the receiving end. A single strand of a fibre optic cable can carry the entire telephone traffic of a large country. Fibre optics has revolutionised the field of telecommunication. It is also used in medical equipments like endoscope.

Filibustering: Practice by which a minority in a legislature uses non stop debate to block or delay action on a proposed bill. Members of the minority make long speeches and propose useless motions. The US senate has a tradition of this unlimited debate.

Final Products: Goods used by consumers in consumption, rather than by firms as inputs into process of production.

Finance: The provision of money when and where required. Finance may be short term (usually upto one year) medium term (usually over one year upto 5 to 7 years) and long term.

Firewall: A security device used in computer networks for protecting them from external access.

Fiscal Policy: that part of government policy which is concerned with raising revenue through taxation and deciding on the level and pattern of expenditure.

Fixed Costs: Costs which in the short run do not vary with outputs. These costs are borne even if no output is produced.

Floating Debt: Generally, any short-term debt, specifically, the part of the national debt that consists of short-term borrowing.

Floor Crossing: Changing one's allegiance from one party to another, especially in legislatures. The expression originated in the context that in most of the legislatures the ruling party and opposition sit facing each other in the floor of the house.

Flow Chart : A diagram which shows the sequence of steps to be followed for solving a particular problem, usually in algorithm

Flutterfly : old name of butterfly

Flying Saucer: Another name of Unidentified Flying Objects (UFO) which is believed to be used by beings from other planets to visit earth. Sightings of these disc shaped vessels were reported from many parts of the world. But the scientific enquiry by US agencies ruled out the sightings as mere weather related phenomenon.

Food Chain: A natural cyclical process by which lesser organisms are eaten by higher organisms. When the higher organisms die and decompose, their nutrients are back to the soil where lesser organisms take them up and the chain action is repeated again.

Foreign Aid: The administered transfer of resources from the advanced countries for the purpose of encouraging economic growth in the developing countries.

Foreign Exchange: Claims on another country held in the form of the currency of that country or interest bearing bonds.

Foreign Investment: The acquisition by governments, institutions or individuals in one country of assets in another.

Fox fire: The luminiscence of decaying wood and plant remains, caused by various fungi.

Francophobe: A person who hates France and its people.

Fraternal Twins : Twins that are the result of simultaneous fertilisation of two ova by two sperms.

Free Market: A market in which the forces of supply and demand are allowed to operate unhindered by government regulation or other interference.

Free Trade: The condition in which the free flow of goods and services in international exchange is neither restricted nor encouraged by direct government intervention.

Freudian slip: A slip of the tongue or pen that seems to reveal a person's real character.

Fringe benefits: Rewards for employment over and above the wage paid. e.g. goods at a discount, subsidized meals, arrangements, etc.

Frontline states: Seven states bordering South Africa defined by their position on the apartheid system which prevailed in South Africa. These states were Angola, Botswana, Mozambique, Namibia, Tanzania, Zambia and Zimbabwe.

Frost Bite: It affects any part of body, especially toes, nose, ears, and fingers below the temperature of 32 Degrees. Symptoms include pins and needle sensations followed by complete numbness. The skin seems white, cold and hard and later it becomes black.

Fuzzy Logic: Logic, similar to human reasoning, applied in computer programming.

Gangrene : It is the death of tissue due to loss of blood supply. The affected skin and tissue becomes black.

Gastroenteritis: Infection of the digestive system caused by virus or in some cases bacteria. Symptoms of the disease are vomiting, abdominal pain and diarrhoea. This results in severe dehydration which will lead to convulsions or kidney failure or even to death.

Genesiology: The science of generation.

Geomedicine: The branch of medicine dealing with the influence of climate and environmental conditions on health.

Gerontology: The study of old age, its phenomena, diseases, etc.

Gerrymander: Rearrangement of electoral constituencies or districts in the interest of a particular political party or candidate. Commonly this a manipulative measure to give an unfair advantage to one political party especially the ruling party. The word gerrymander originated from the name of Governor Elbridge Gerry of Massachusetts.

Ghost Writer : The real author of stories or books that bear name of someone else.

Giffen Goods: Goods which do not obey the law of demand, viz., that less is bought as price rises.

Gift Tax: A levy on the value of certain property given away to others and paid by the donor.

Ginseng : It is the root of a medicinal plant which contains the biologically active substance ginsenoside. It is used for thousand of years as a tonic and an aphrodisiac.

Global Warming: An increase over a period of the average temperature of earth's atmosphere and oceans. The greenhouse effect is attributed as the main reason for this phenomenon. Average global temperature since the late 19th century is taken (plus or minus) for assessing the effect of global warming.

Glottochronology: The study of the history of language.

Gold Coast: Ghana, before independence.

Gold Standard: A country said to be on the gold standard when its central bank is obliged to give gold in exchange for any of its currency presented to it.

Gold Standard: A monetary standard under which the basic unit of currency is equal in value to a given amount of gold.

Google: The most popular search engine in the Internet offering basic and advanced search options and mail service.

Googol: The number written as 1 followed by 100 zeroes, or 10².

Great Leap Forward: In 1958, this move-

initiated in China to speed up progress. The 'communes' under Leap were a failure.

Greenhouse Effect: The phenomenon building up in earth's atmosphere. It is caused when pollutant gases prevent escaping into space. The carbon dioxide in the atmosphere lets sunlight pass through to earth, but it blocks the infrared radiation coming from earth because it is of a longer wavelength. Due to this the gas acts like the roof of a green house to trap the heat and makes the inside air hotter than outside.

Domestic Product (G.D.P.): A measure of the total flow of goods and services produced by the economy over a specific period, normally a year. It is obtained by adding up the outputs of goods and services at market prices and then aggregating.

National Product (G.N.P.): GDP plus income accruing to domestic residents from investment abroad less income earned in the domestic market by foreign residents abroad.

Flight Crew: People responsible for the operation and maintenance of an aircraft.

Guerrilla War: A type of warfare practised by small forces employing unorthodox tactics to fight against established military forces. The usage of guerrilla warfare became famous during the Peninsular War in which Spanish and Portuguese guerrillas (little warriors) helped to drive the French out of Iberia. The general dictum of guerrilla technique is that 'the guerrilla wins when the army does not lose; the army loses when the guerrilla wins'.

Guillotine: A machine with knife-blade used for beheading. This machine was used during the French revolution, named after the Frenchman Ignace Guillotine. In legislatures, it means the drastic method of curbing a bill.

Detention: A forced labour camp or prison, especially for political prisoners.

Gunpowder Plot: The plot of 1605 to blow up King James I of England and the Houses of Parliament. The plot failed.

Habeas Corpus: A legal term in its original Latin, means you are ordered to have the body. It is a writ or judicial order requiring that a prisoner be brought before a court at a stated time to decide the legality of his detention or imprisonment. Habeas corpus safeguards personal freedom by protecting individuals from illegal detention or imprisonment. In India the High Courts are empowered with the power to issue this writ for the enforcement of fundamental rights.

Hacker: A person who intrudes into computer networks using their programming skills and accesses or damages restricted data.

Haiku: A poetic form in Japanese literature, consisting of 17 syllables in five seven-five pattern.

Hard News: A current news story having significant impact, usually related to politics, economics, disaster etc. It is straight and serious news content with little 'flesh and spice'.

Heliotherapy: The sun cure.

Hermaphroditism: The condition of having both male and female reproductive organs.

Hermeneutics: Study of the general principles of biblical interpretation.

High Seas: The waters lying outside the territorial waters of any state.

Hippocratic Oath: An ethical code assumed to be developed by Greek physician Hippocrates. This moral code governs the professional conduct of medical practitioners all over the world.

Hoarding: The withdrawal of money from active circulation by accumulating it rather than spending it on consumption or buying assets.

Hodgkins Disease: It affects the lymphoid tissue in the lymph node. It starts as a painless enlargement of lymph nodes. Persistent fever and unexplained weight loss may also follow.

Hologram: A three dimensional photo-

graphic image extensively used for creating watermark and identifying stamps in security documents and products. This technique developed in 1947 has a lot of commercial applications.

Homicide: Killing of one person by another.

Homogeneous products: When the outputs of different firms are undifferentiated and perfect substitutes in the eyes of consumers then the product is said to be homogeneous.

Hospice: Nursing home that specializes in the care of people who are dying.

Hotbot: A free text search engine in the internet.

HTTP : Abbreviation of Hyper Text Transfer Protocol which guides the communication between computers on the internet. It is the most crucial protocol governing the world wide web (WWW) and is used to transfer hypertext files across the internet.

Household: An economic unit which is defined for the purpose of the census of population as a single person living alone or a group voluntarily living together.

Human Capital: The skills, capacities and abilities possessed by an individual which permit him to earn income.

Human Sacrifice: The practice of killing human beings as a religious rite to propitiate the god. Human sacrifice has been part of all religions and all civilizations.

Hundred Days: The period between Napoleon's arrival in Paris after escaping from exile on Elba and the return of Louis XVIII to Paris.

Huntington's Disease: A severe hereditary disease affecting the nervous system. It is named after George Huntington, an American Doctor. This disease destroys brain cells, affects body movements and mental activities and results in death.

Hybrid Bills: Hybrid bills are public bills which may in certain respects affect private interest. In Britain, there is separate procedure for passing this legislation.

Hydrodynamics: The mathematical study of the forces, energy and pressure of liquids in motion.

Hydrography: The science of water measurements of the earth with special reference to their use for navigation.

Hydropathy: The cure of disease by internal and external use of water.

Hydrotherapy : It is the method of treating diseases by using water, either hot or cold.

Hyperbole : Exaggerated statement used for emphasis. Eg. A horse! A Horse! My kingdom for a Horse! (William Shakespeare).

Hypochondria : Morbid anxiety about health or imaginary illness.

Hydroponics: The technique of growing plants and agricultural crops without soil. They are planted directly in water containing dissolved nutrients. The nutrition level, light, heat, moisture, carbon dioxide concentration etc are controlled by devices like computer. Sometimes plants are grown in soilless bark based mixture. Hydroponics helps growing vegetables and flowers in unfavourable environment like desert, barren land etc. It is also known as aquaculture.

Hypertext: System of organising information with links to other related documents.

Hypnology: The study of sleep.

Ichthyology: The study of fish.

Iconography: Teaching with aid of pictures and models.

Iconology: The study of symbolic representations.

Idolatry: Worship of idol as if it were god. Idolatry is a most common form of worship in Hinduism whereas Islam and Christianity prohibit it.

Iglloo: The shelter of Eskimo built by snow on earth or stone.

Impeachment: Accusation and Prosecution of the Head of the state or high public officials on serious charges like treason, wrongdoing, crime, scandal, violation of constitution.

ion etc. In most of the countries the parliament enjoys the power to impeach.

Imperial Conferences: Meetings between British government and representatives of the self-governing dominions to discuss questions of common interest. Held between 1907 and 1937.

Impressionism: French art movement that flourished from the late 1860s to 1880s. Name derived from Monet's painting *Impression: Sunrise*.

Impromptu: A speech delivered without previous preparation.

Inactive money (Idle money): That portion of the total stock of money or money supply (currency plus bank deposits) in existence at any one time which is not being used to finance current transactions or being lent out on the money market.

Inbreeding: Mating between closely related individuals. Also, self fertilization in plants.

Income Tax: A tax levied on income. It is progressive in its effect.

Inflation: A steep rise in prices with too much money in circulation and too little supply of goods and services. The cost-push and demand-pull factors are the main causes of inflation in an economy.

Information Science: The study of the systematic collection, storage, categorisation and retrieval of data in different formats especially in digital form.

Information Technology: A multidisciplinary subject involving the application of technologies like computer, communication and electronic publication.

Informercial: Advertisements in visual media which are blend of information and commercial

Infotainment: Programmes in visual media that are informative but presented in an entertaining manner.

Inhibition: A behaviour which is marked by conscious or unconscious wish to avoid

taking action because something unpleasant or immoral may happen.

Innuendo: Indirect or subtle implication, usually unpleasant. Eg. I will be delighted to attend his funeral.

Investment: Strictly defined, investment is expenditure on real capital goods. However, in everyday language, it is also taken to mean purchase of any asset, or indeed the undertaking of any commitment which involves an initial sacrifice followed by subsequent benefits.

Irony: Saying one thing but meaning the opposite. Eg. For Brutus is an honourable man (William Shakespeare).

ISDN: Abbreviation of Integrated Services Digital Network. Basically a way to move more data over existing regular phone lines. It is a digital communications platform capable to handle different types of information like computer data, text, picture, voice etc.

Ishihara Test: It is a method for testing color blindness.

Itai-Itai disease: a bone disease caused by industrial cadmium pollution of the food and water supply.

Ivy League: Group of eight prestigious universities in northeastern U.S.A, namely Harvard, Yale, Princeton, Columbia, Brown and Cornell universities, the University of Pennsylvania, and Dartmouth College. They are members of an athletic conference for intercollegiate football.

Joystick: A multidirectional pointing device used in computer mainly for playing computer games and computer aided data applications

Judicial Review: The power of the judiciary to review statutes or administrative acts and determine their constitutionality. In India any legislation can be subjected to judicial Review. In USA, the Supreme Court enjoys the power of Judicial Review. But in England, the judiciary has no power to review the laws made by Parliament.

Juggernaut: The Idol of Lord Krishna at

the temple of Puri, Orissa, is dragged in procession in an enormous chariot at the annual car festival. It is now used to mean a large, powerful and overwhelming force or institution.

Jukebox: A machine which automatically plays selected records when coins are inserted. Optical or magnetic storage discs are used in this system and the machine chooses the relevant disc automatically on user's request.

Juvenile Delinquency: Crimes or breach of law committed by persons below the age of legal adulthood, 18 years in most countries. Offences by them are treated sympathetically and separately considering the fact that most of the juvenile delinquents are victims of childhood trauma or neglect. In most of the countries special courts and correctional institutions are established to handle juvenile delinquents.

Kaleidoscope: A small covered glass tube in which you can see beautiful colours and designs. It works on the principle of multiple reflection.

Kamikaze: A type of Japanese pilots and aircrafts used for suicide missions during World War II. The kamikaze pilots were specially trained to dive aircrafts loaded with explosives to targets.

Kaolin: A type of fine white clay used in pharmacy for making ointments and for coating tablets.

Karaoke: Recorded music of popular songs without the singer's voice or vocals. People use karaoke cds or vcds to accompany their own performance of a song. In Japanese Karaoke is an empty orchestra.

Kawasaki Disease: A type of disease commonly affecting children below 2 years. It is named after Tomisaku Kawasaki, who first described it. Prolonged high fever, redness of eyes, sore throat, cracked and bleeding lips, red rashes in body etc are the main symptoms. This will create damage to heart and eventually lead to death. Though it has occurred worldwide, it is most common in Japan.

Keratotomy: The surgical removal of a part or all of the cornea.

Kharif: In India and Pakistan, a crop harvested at the end of autumn.

Kulak: The zamindar class in Russia.

Labour: One of the primary factors of production, 'labour' is the collective name given to the productive services embodied in human physical effort, skill, intellectual powers, etc.

Labour-Intensive: A process or product is called labour-intensive if it uses proportionately more labour in its production than other factors of production.

Laissez-faire: The principle of non-intervention of government in economic affairs.

Lamalism: Buddhism practised in Tibet and Mongolia. It is also known as Tibetan Buddhism.

Lampoon: A piece of writing, poem, drawing etc. which criticises satirically in an amusing way a famous person or organisation.

Land: Land is taken to mean not only that part of the earth's surface not covered by water but also all the free gifts of nature, such as minerals, soil fertility, etc.

Legal Tender: That which must be accepted in legal settlement of a money debt.

Letter of Credit: An order from a bank to a bank abroad authorizing payment to a person named in the letter of a particular sum of money or upto a limit of a certain sum.

Light Year: Distance travelled by light in one year - 9.4607 million million k.m.

Limnology: The study of freshwater.

Liposuction: Removal of the abnormal deposition of fat in a particular area of the body.

Litotes: An ironical understatement in which an affirmative is expressed by the negative or opposite. Eg. This is no small problem.

Lobbying: The practice of influencing members of legislatures by frequently visiting their lobby and by bribery, promise or reward, intimidation or other dishonest means.

Locus Standi: The right of a petitioner against a private, provisional order or hybrid bill or special procedure order to be heard upon his petition. A petitioner has locus standi when his interest is directly hit by the bill, if passed. It justifies the right to intervene or the right to be heard.

Long-run: In price theory, the long-run is defined as the time period long enough for the firm to be able to vary the quantities of all its factors of production rather than just some of them.

Lunar Eclipse: Passage of the Moon through the shadow cast by the Earth.

Lycos: A free text search engine developed by the Carnegie Mellon University in 1994.

Lysol : A general purpose disinfectant. It is most commonly used in laboratories for sterilising surgical instruments, floor and furniture.

Lynching: Torture killing of victims by a violent mob. The term derived from Charles Lynch of Virginia, in USA, who was the leader of a self proclaimed court which punished supporters of Britain during the American war of Independence. Now the term is used to denote lynching associated with racist bigotry. Jews in Russia and Blacks in USA were lynched on racial grounds.

Machiavellian : Using clever and dishonest methods to deceive people in order to wield or maintain power or authority.

Mall Merge: The process of linking a document or letter with a required datafile in such a way that different people will get letters with appropriate details.

Malapropism : Wrong use of one word instead of another word because they sound similar to each other. It derives its name from a character Mrs. Malaprop in Sheridan's "Rivals". She misused words which sounded alike. Eg. It is a wolf in a cheap clothing. My sister has extra century perception.

Mainframe Computer: Fastest and high capacity computer with huge memory which

permits a large number of users simultaneously.

Mandamus: Mandamus means 'We Command You'. It is a writ of a most extensive nature, issued by Supreme Court or High Courts to enforce performance of public duties. It compels the concerned authority or officer to act in the discharge of the duties and trusts imposed upon them. While the Supreme Court issue this writ for the enforcement of any of the fundamental rights, the High Courts are empowered to issue it for any other purpose too.

Manicure: Cosmetic care and treatment of hands and finger nails, which involves cutting and sometimes painting of nails and softening of skin.

Marshal: An officer of the highest military rank or a military commander. An officer appointed to help the speaker of legislatures to maintain law and order.

Marsupial: A mammal whose young are born in an extremely immature state. It is grown by attaching itself to the nipples of its mother for the nourishing milk. In most of the marsupials, the nipples are located in a pouch called marsupium. Kangaroo, koala, opossum etc. are marsupials.

Masque: A form of entertainment combining dancing, drama, music and poetry with lavish sets and costumes. It was a popular entertainment in Europe and reached its climax in England in 1600's. It was presented to celebrate events like coronation, holiday, marriage and sometimes to honour royal guests.

Maverick : A person who thinks and acts in an independent and different way creating some peculiarity of his own.

Melodrama : Sensational dramatic piece with violent appeals to emotions

Mercator Map: The map projection named after Gerardus Mercator, the Flemish inventor, in which the globe is projected onto a cylinder. Mercator's first world map appeared in 1538.

Metaphor: Figure of speech used to describe one thing for indirectly conveying something in another field. It suggests a comparison without using the word 'like' or 'as'.

Meta Search Engine : An internet search engine which simultaneously search other search engines and combines the results from them.

Metrology: The scientific study of weights and measures.

Minamata Disease: Disease caused by mercury poisoning. Minamata is a city in Japan where a chemical plant had been dumping organic mercury for years. This toxic metal gradually get into the food chain and caused terrible paralytical diseases and genitic disorders in the local people.

Mistletoe: A plant that grows as a parasite on the trunks and branches of trees.

Mistress : A woman who provides sexual satisfaction and companionship to a man who is married or not. The relationship is normally long and the woman gets financial support and a place to live in return.

Mitre Square: a carpenter's square with a blade set at 45° or at an adjustable angle.

Mixed Economy: An economy which contains elements of both private and state enterprise.

MODEM: A device linking a computer system and a telephone line so that data can be transmitted at high speeds from one computer to another. A MODEM converts analog data to digital and vice versa. The word MODEM was coined by combining Modulator and Demodulator.

Money Market: The financial institutions that deal in short-term securities and loans, gold and foreign exchange.

Mongolism: A congenital defect (also called Down's syndrome) in which a child is mentally retarded and has slanted eyes, a broad short face, weak muscles and stubby fingers.

Monopoly: A market situation in which a single seller controls the entire output of a particular good or service.

Monopsony: The situation in which there is only a single buyer in a market.

Montage: The art of forming patterns by collation of different elements. In film, it is a technique of editing to emphasize a point by either juxtaposing different images or showing contrasting scenes in sequence.

Moore's Law: A law based on the prediction by Gordon Moore, Intel Corporation's co-founder. In 1965 Moore predicted that the number of transistors per chip would double every year for the next ten years. It was proved very accurate and became popular as Moore's Law.

Moratorium: Temporarily stopping of an activity or postponement of the time for payment of debts or financial obligations.

Morphology : The science that deals with form and structure without regard to function.

Motherboard: Printed circuit board used in computer. It contains the central processing unit, other processors, device controllers and expansion slots.

Mother's Day: The second Sunday of May in the USA, when mothers are remembered.

Mustard gas: Dichlorodiethyl sulphide - an oily liquid that has been used as a 'war gas'.

Mycology: The study of fungi and fungus diseases.

Myology: The study of muscles.

Myopia: A visual defect in which a person can see nearby objects clearly, but distant vision is blurred. It is also called shortsightedness.

Myrmecology: The study of ants.

Mysticism: Attainment of knowledge beyond sensory perception and the unification of mind with the ultimate truth. Mystics are detached from the physical world and engaged in study and contemplation. Hinduism and Buddhism were the earliest religions in the world to develop and practice mysticism.

Nanotechnology: The science which aims to create molecule based computer chips and other devices that are thousands of times smaller than the existing technologies.

Narrowcasting : Producing and disseminating programmes for a specialised audience.

National Debt: The total outstanding borrowing of the central government exchequer.

National Income: A measure of the money value of the total flow of goods and services produced in an economy over a specified period of time.

Nativity Play: a play which tells the story of Jesus Christ.

Natural Gas: Gas found underground. It is used as a fuel.

Natural Wastage: reducing the number of workers by not replacing those who leave the organisation.

Net domestic Product: Gross domestic product less depreciation.

Netiquette: The etiquette rules applicable to messages posted in online services especially in internet news groups. It helps to maintain civility and adherence to electronic rules relevant to mail communication in the internet.

Netizen: A new term coined by linking the terms Internet and Citizen. In the modern age of information technology, any citizen who regularly uses the internet can be called a Netizen.

Newspeak: Use of deceptive talk by government officials and others in order to influence public opinion.

Nickelodeon: Juke box or a machine which automatically plays a selected music when a coin is inserted.

Nomology: The study of law-making or scientific laws.

Nosography: The systematic description of diseases.

Nosology: The study of classification of diseases.

Nova: Star that suddenly flares up to many

times its normal brilliancies and then fades back to obscurity.

Numerology: The study of numbers, study of the date and year of one's birth to determine their influence on one's future life.

Nystagmus: Persistent involuntary movements of the eyes.

Obesity: The condition of being overweight due to excess accumulation of fat in the body.

Oenology: The study of wines.

Oligopoly: A type of market in which there is a relatively high degree of concentration, i.e. a small number of firms account for a large proportion of output, employment, etc.

Oneirology: The study of dreams.

Oology: The study of eggs.

Open Market Operation: The purchase or sale of securities by the central bank to influence the supply of funds in the capital market, and so interest rates and the volume of credit.

Optical Character Recognition: The technique of converting text from paper to a form which computer can use and manipulate such as ASCII codes. Images from pages of books, magazines, newspapers etc can be converted using OCR and fed directly into a computer file.

Optical Scanner: A type of scanner which can read printed text or illustrations and convert the same into a form the computer can use.

Orange Day (Orangeman's Day): July 12, a public holiday in N. Ireland. Protestants celebrate it as the anniversary of the battles of the Boyne and of Aughrim, both in the 17th century.

Origami: The art of folding paper into different patterns and decorative objects. It was originated in China but later flourished and became a popular art form in Japan.

Orthography: The art of correct spelling.

Osteomalacia: Softening of the bones due to a deficiency of vitamin D.

Outsourcing: The

information technology related jobs like translation, transcription, digitisation, data conversion, software development, call centre services etc to outside agencies. The work may be done by agencies within the country or outside.

Oxford Movement: A movement within the Church of England that sought to link the Anglican Church more closely to the Roman Catholic Church. Originated at Oxford University in 1833.

Oxymoron : Figure of speech in which opposites are combined for effect. Eg. His honour rooted in dishonour and faith unfaithful kept him falsely true (Alfred Lord Tennyson).

P/E Ratio: Price/earning ratio of a company. is calculated by dividing the market price per share by the earnings per share of the company.

Pacemaker: An electrical device powered by a battery, used by people with certain heart diseases which prevent the heart from beating regularly. The pacemaker sends out electrical impulses which give a regular heart-beat.

Paedophilia : Sexual desire of an adult, usually a male, towards a child.

Palindrome: Word or group of words that reads the same backwards as forwards. The longest word among palindromes is 'Malayalam'. Refer, level, madam etc. are also palindromes.

Paradox : a situation, fact or statement which seems difficult to understand because it contains two opposite facts or characteristics. Eg. I am a liar. A Roman said, all Romans are liars.

Parapraxis : Psychological term denoting a blunder, fault, slip of tongue, lapse of memory or misplacement of an article.

Patent Log (also called screw log, taffrail log): Instrument that helps measure the speed of and distance travelled by a vessel.

Pedicure: Cosmetic care and treatment of feet which involves cutting and sometimes painting of nails and softening of skin.

Penology: Study of punishment and prison management.

Per capita Income: The total income of a group divided by the number of people in the group.

Personal property: (Legal) Temporal or movable property as distinguished from real property.

Peter's Map: Projection or map made by Arnould Peters, which has equal areas and shapes, and shows countries in their relative sizes.

PG: (Parental Guidance) Film rating equivalent to the former 'A' rating.

PH: (potential of Hydrogen) a standard measure of the alkalinity or acidity of any solution.

Phthisiology: The scientific study of tuberculosis.

Phycology: The study of algae.

Physiognomy: The art of judging character from physical appearance, especially from the features of face.

Platonic : Relationship or emotion which is very affectionate but not sexual.

Play Therapy : A method of treatment for children which utilizes the child's play as a medium for the expression and communication between the child, the patient and therapist.

Pieta: Painting or sculpture showing the dead Christ in the lap of the Virgin Mary.

Plagiarism: The act of illegally copying the work of another person and using another person's writings, inventions etc. and presenting it as one's own.

Pomology: The science that deals with the cultivation of fruits and fruit growing.

Pornography : Writing, painting, or photography describing sex in such a way as to appeal to basic instincts and excite impressionable minds. It is intended only to arouse sexual desire and has normally no artistic value.

Portfolio: The collection of securities owned or managed by an investor.

Pool: An American form of billiards played on a table 1.4 x 2.7 m. with six pockets.

Price: The quantity of money which must be exchanged for one unit of a good or service.

Primary Colours: The colours from which all other colours are made up. These are blue, yellow and red.

Privy Purse: Allowance from the public revenue for the private or personal use of the monarch or the sovereign. In India a sum was fixed by the government for the expenses of the former rulers of erstwhile Indian states and their families. This was abolished in 1971.

Proportional Representation: An electoral system designed to secure the representation of parties proportionate to their voting strength. This system is deliberately designed to ensure representation of all political sections.

Proportional Tax: A tax which is levied at the same rate, at all income levels.

Pseudonym: A name which a person such as a writer uses instead of their real name especially on their work.

Quisling: Traitor, i.e., a person who helps the enemy that has taken control of his country.

Rabi: A crop harvested in India and Pakistan at the beginning of spring.

Radio Astronomy: The study of heavenly bodies by the reception and analysis of the radio frequency electro-magnetic radiations which they emit or reflect.

Radiobiology: The branch of biology which deals with the effects of radiations on living organisms.

Realism: A term used with reference to a form of literature depicting actual life and representing universal human passions.

Recession: A downturn in the business cycle characterized by two successive quarters of negative rates of growth in the real GNP.

Recortadores Bullfight: Bullfight in which the men try to dodge bulls without cape or sword. The animals are not killed in this ancient tradition.

Rehydration Therapy: A type of treatment for dehydration by giving fluids with salt and glucose.

Renal Failure: The reduction of ability of the kidneys to filter waste from the blood and excrete those in urine.

Rhesus (Rh) Factor: A complex substance present on the surface of red blood cells in most people. People with the Rh factor are described as Rh-positive and those without Rh-negative.

Romanticism: The term is characterised by the qualities of remoteness, resolution, disillusionment, passion, divine unrest, melancholy, idealization and all embracing power of the imagination.

Robotics: The study of artificial intelligence and robot construction.

Routing: It is a crucial process in internet by which 'packet' of data is moved from source to destination.

Sanskritisation: Process in which people of a lower caste change their customs, rituals, ideology and way of life in the direction of the high class.

Schizophrenia: A severe form of psychosis characterised by mental disorders and behavioural eccentricities like introversion, disassociation, inability to distinguish reality from unreality, delusions etc.

Selenology: The scientific study of moon, its nature, origin, movements, etc.

Semelology: The study of signs or sign language.

Services: Consumer or product goods which are mainly intangible and often consumed at the same time as they are produced.

'Shangri La' Dialogue: Annual dialogue in Singapore on Asian security, sponsored by the International Institute of Strategic Studies, London.

Short-run: A time period in which a firm is not able to vary all its factors of production.

Silent Majority: A group, held to represent the majority of a population, that doesn't normally express its views but is taken to support the status quo.

Silicon Valley: Santa Clara Valley region of Northern California in USA. This area became popular worldwide due to its high concentration of microprocessor technology based industries and institutions.

Silicosis: A lung disease caused by inhaling silica dust. It usually affects miners, steel foundry workers, sandblasters, rock drillers etc.

Simile : Figure of speech in which one thing is compared to another, usually with the word like or as. Eg. When the evening is spread out against the sky like patient etherised upon a table. (T.S.Eliot, the love song of J Alfred Prufrock).

Sin Bin: A place for players, to wait at the side of a playing area where they have been sent off temporarily for breaking some rules.

Sixth Sense: a power of perception thought of as a sense in addition to the five senses. It is intuitive power.

Soft-currency: A currency whose exchange rate is tending to fall because of persistent balance of payments deficits or because of the building up of speculative selling of the currency in expectation of a change in its exchange rate.

Soft Diet : Easily digestible solid diet having minimum residue.

Soft-loan: A loan bearing either no rate of interest or an interest rate which is below the true cost of the capital lent.

Solar Eclipse: Blotting out of the Sun by the Moon, so that the Moon is directly between the Earth and the Sun.

Sonnet: A poem of 14 lines, arranged in a particular pattern of rhyme, each line having normally 10 syllables.

Specie Points: The limits between which the exchange rate between two currencies on the gold standard fluctuates.

Speculation: Buying and selling with a view to buying and selling at a profit later when prices have changed.

Speleology: The study of caves.

Spoonerism: Ludicrous involuntary transposition of sounds of spoken words such as "snowing leopard" for "loving Shepherd".

St George's Cross: A red cross on a white backdrop, used as the flag of England.

St John's Wort: Any of the several shrubs usually having yellow five petalled flowers. These flowers are believed to bloom on the twenty fourth of June, on the feast of St. John the Baptist.

St. Agnes Eve: The night of the twentieth of January. It is traditionally believed that girls going to bed in this day after following certain rites may dream her future husband.

St. Anthony's Fire: A common name for an inflamed skin condition once thought to be Erysipelas, but now known to be a symptom of ergotism.

St. Bernard's Dog: A type of big dog with broad head and large feet, orange-brown and white in look. It was originally used to find and rescue travellers trapped in mountain snow in the St. Bernard passes in the Alps.

St. Elmo's Fire: An electrical discharge that creates a glow around the tip of a church spire, ship's mast etc, especially in bad weather.

St. Swithin's Day: The feast day of Saint Swithin, former Bishop of Winchester on July 15. It is believed that, if it rains on this day it will rain for 40 days and if it doesn't, the next 40 days would be dry.

St. Vitus's Dance: A type of nervous disorder that causes rapid involuntary movements of limbs or facial muscles.

Straight Time: The number of working hours fixed as a standard for a given work period.

Sulphonamides: A group of drugs, which, when they were introduced in the 1930's provided the first effective treatment for a number of bacterial diseases.

Supergiant: The largest and most luminous type of star.

Tall Poppy Syndrome: A malicious tendency to tarnish those who are successful in life.

Tapestry: The art of creating patterns or pictures by sewing or weaving different coloured threads on a special thick hand woven fabric.

Tautology: The unnecessary and often unintentional use of two words to express the same meaning.

Tax Avoidance: Arranging one's financial affairs within the law so as to minimize taxation liabilities.

Tax Evasion: Failing to meet actual tax liabilities.

Teleology: The doctrine or belief that everything, every development and event, has a special purpose or use.

Televangelism: The preaching of evangelism on Television for religious propagation or raising money for religious purposes.

Tennis elbow : A condition caused by inflammation around the epicondyle on the outer side of the elbow which results in pain and tenderness.

Terms of Trade: The ratio of the index of export prices to the index of import prices.

Thalidomide: A drug which was earlier used to help people relax or sleep, which was later found to cause genetic deformities. It creates damage to babies inside the womb by stopping the development of their arms and legs, when it is taken by their mothers.

Tomboy: a girl who dresses like a boy, and likes physical activities that boys usually indulge in.

Tongue-twister: a phrase or sentence that is intended to be difficult to say, especially when repeated quickly.

Topiary: The art of cutting and trimming of bushes into attractive and ornamental shapes like animals and birds.

Totalitarianism: Political system which

totally controls every aspect of life in a given society.

Tourette's Syndrome: A rare disease affecting the brain in which the patient swears, makes noises and moves in a way that they can't control.

Toxicology: The scientific study of the nature and effects of poisons, their detection and treatment.

Trade cycle: Regular oscillations in the level of business activity over a period of year.

Tragedy : In literature tragedy denotes a play with a sad or tragic end.

Trigonometry: A branch of Mathematics dealing with relationship between the angles and sides of triangles. Practically this is applied in measuring the height of buildings, mountains etc.

Trilogy : A set of three related works by the same author.

Truck system: System in which wages are paid in goods or kind rather than money.

Tug-of-love: a situation in which one of the separated parents of a child takes care of the child, and the other parent claims the right to keep the child.

Type A personality : The state of mind and behaviour characterised by excessive drive, competitiveness, sense of time urgency, impatience, unrealistic ambition etc.

Ugly Duckling: A person or thing thought to be worthless at the first instance but later turns to be outstandingly beautiful or highly valued.

Uplink: Transmission link between an earth station and a satellite.

Upload: Transferring data or program from a computer to the server in the network.

URL: It is a universally accepted system followed in naming a website in the Internet. eg. <http://www.manoramaonline.com>. URL is the abbreviation of Uniform Resource Locator.

USB : Abbreviation of Universal Serial Bus which denotes a standard followed in connecting external devices like mouse, modem, key-

d etc. to the computer hardware. This / users to easily add new devices to the ing system without an adapter card or shut n.

Utility: The satisfaction, pleasure or fulfillment of needs derived from consuming some ntity of a good.

Valentine's Day: A festival of romance and tion, celebrated worldwide on February an occasion to send special greetings to thearts or other loved ones.

Ventriloquism: The art of producing e sounds so that they seem to come from fferent source or place at distance from speaker.

Vernacular Press: Also called Language s it denotes media products like newspas and magazines published in a native uage. It is a derogatory term first used the British to differentiate the English vspapers and magazines from those of ian languages which they considered in-or.

Verruca: Medical term for a wart, a small with formed on the skin and caused by a is.

Video Conferencing: Technology in ich video, audio and computer signals n different locations are linked in such a y that different people can see and interact he same time, as if in a conference room.

VTO (vertical take-off and landing): xed-wing aeroplane that can take off and d without using a runway.

Watermark: A design applied to paper en it is made. It can be seen by holding the er up to the light. Currency notes and tage stamps carry a watermark to prevent jery.

Wealth: The wealth of an individual is his al stock of tangible or intangible posses- s which have a market value.

Website: A place where information is t in the internet. Websites are created in Server computer of the Internet and each

website have a unique address called URL. (see URL)

Westerlies: The chief winds blowing be- tween 30° and 70° latitude.

Wolf Syndrome: A disorder with symp- toms of mental retardation, hypotonia, cleft lip and coloboma. This is caused by the partial deletion of short arm of chromosome - 4.

WWW: Abbreviation of World Wide Web. It is a set of protocols that give interactive access to the huge content of Internet to its users. Information in the internet is linked by a software technique called hypertext.

Xanadu: A concept first visualised by Theodor Holm Nelson to integrate all the library collections and databases worldwide into a single digital system. Conceived in 1970's, first it was considered as an utopian idea, but with the origin of internet, the concept has been realised partially.

X-ray stars: Stars that emit x-rays, discovered by instruments carried outside the Earth's atmosphere by space probes.

Yahoo: An index based popular search engine in the internet. It uses hierarchical indexes of contents on the World Wide Web.

Yellow Journalism: That type of journal- ism which is sensational, scandalous, slander- ous and scurrilous. The term derived from a popular comic strip, 'The Yellow Kid'.

Yom Kippur: It is a Jewish holiday - the day when sins are confessed and expiated and man and God are reconciled.

Zeugma: Using the same word, in differ- ent senses, to govern two or more other words. Eg. He took his leave and my umbrella.

Zero Hour: The time set for the beginning of an attack or other military operation; any crucial or decisive moment.

Ziggurat: Pyramidical tower in ancient Mesopotamia, surmounted by a temple and with stages or a continuous ramp to the top.

Zoogeography: The study of the distri- bution of animals on the surface of the globe.

Explorers of the World

Explorers gave us the world as we see it today. The following list reflects the contributions of the most illustrious explorers whose journeys into the unknown opened up new worlds for us. The achievements of man in space in the 20th century are included, along with the exploits of the adventurous men of earlier times who were often partitioned by kings, or driven by sheer spirit of adventure. Every expedition is a saga of courage to venture out into the unknown.

1. Abel Janszoon Tasman

Tasmania reminds us of Tasman. The Dutch navigator, commissioned by Anthony Van Diemen (1642) to explore the South Pacific and to find a route to Chile, sighted Tasmania. He called it St. Van Diemen's Land in honour of his patron. The name changed to Tasmania in 1856. His other discoveries included Tonga and Fiji. A section of the SW Pacific Ocean lying between Australia and Tasmania on the west and New Zealand on the east is called Tasman Sea. A later voyage took Tasman to the Gulf of Carpentaria. In spite of the fact that he circumnavigated the continent, Tasman didn't sight the Australian mainland coast.

2. Alexander Mackenzie

Mackenzie, a fur trader turned explorer, was a Canadian born in Scotland. He explored the icy interior of North Canada, and became the first European to reach the Pacific by an overland route. Searching for a route to the Pacific, he followed the river now named after him to the Arctic Ocean (1789). Mackenzie is the longest river in Canada. Later he discovered the River Fraser.

3. Amerigo Vespucci

Florence-born Italian explorer, Vespucci promoted a voyage to the New World in the track of Christopher Columbus who kindled his interest in exploration. Vespucci who explored the coast of Venezuela claimed he first sighted South America in 1497, a year before Columbus. He discovered the mouth of the river Amazon during a Spanish expedition with navigator Alonso Ojeda. Vespucci took part in an exploration of the Atlantic coastline of South America. It was a few years later that Vespucci was convinced that America was a separate continent. The name America comes from Amerigo Vespucci.

4. Bartolomeu Dias

In 1487, King John II of Portugal gave command of three ships to 37-year-old Bartolomeu Dias. Dias set out on an expedition to explore the coast of Africa; landed at Mosselbaai about 320 km. east of what is now called the Cape of Good Hope. Dias had been blown by a storm at the Cape which he named the 'Cape of Storms'. He later helped plan Vasco da Gama's successful voyage to India. In 1499, Dias accompanied Cabral on a voyage to Brazil. Dias was drowned near the Cape during this journey.

5. Christopher Columbus

Columbus is the Italian explorer credited with the discovery of America. His transatlantic voyages paved the way for the colonization of America. When he was sent by the King of Spain across the Atlantic with three ships, his destination was Asia but he reached the Americas. He was the first European to reach the Americas.

inhabitants 'Indians'. He then sailed around the Caribbean and returned to Spain in 1493. On his second voyage with 17 ships, he founded La Isabela, the first European town in the New World. The third voyage took him to South America. Columbus' discoveries were to help in building up the Spanish empire in America.

6. David Livingstone

He was an unusual type of explorer. He studied theology and medicine and became a missionary doctor. He chose Africa for investigation and exploration. Livingstone was the first European to reach Lake Ngami in 1849 and the first to reach Luanda from the interior in 1854. One of his greatest achievements was the discovery of Victoria Falls in 1855. Lakes Mweru and Bangweulu were his discoveries too. He wasn't successful in finding the source of the Nile. Livingstone is remembered for his account of the journey from Angola to Mozambique.

7. Erik the Red

He belongs to the 10th century. His name has a place in history as the founder of the first European settlement on Greenland. Born in Norway, the Viking sailor (original name: Erik Thorvaldson) grew up in Iceland. Having found Greenland, which he named so in order to attract settlers, efforts were made by him to get a few families to set up a Viking colony. He led an expedition of 25 ships, and by 1000 A.D., the settlers numbered about 1000. The settlement at Brattahlid was the first. The colony was a victim to diseases and this led to its decay. The other Norse settlements had better luck.

Erik the Red had an illustrious son in Lief who came to be known as Leif Ericson the Lucky, the Norse discoverer of America, possibly the first European to reach N. America. He seems to have landed at Nova Scotia, which he called Vinland after the vines growing there.

8. Ferdinand Magellan

Magellan from Portugal, undertook many expeditions to India and Africa between 1505 and 1516. In September 1519, he set out with five ships – Trinidad, Magellan's flagship, San Antonio, Concepcion, Victoria and Santiago – crewed by 250 men. After crossing Brazil, he sailed through the strait that separates South America from Tierra del Feugo – now named after him. There was tragedy at Marianas Islands. The local tribesmen attacked the explorers and Magellan was killed. Eventually only one ship, the Victoria, reached Europe in 1522. Juan Sebastian del Cano, captain of the Victoria thus completed the first circumnavigation of the world. Ferdinand Magellan, after sailing through the stormy Straits of Magellan, found calmer waters and decided to name it Pacific Ocean meaning peaceful. Two small irregular galaxies known as Magellanic clouds were first recorded by Magellan in 1519.



9. Francis Drake

Drake is remembered as the first Englishman to circumnavigate the world (1580); and the vice admiral of the fleet which destroyed the Spanish Armada (1588). He made his first trading expeditions to Guinea and the West Indies. He was noted for his plundering raids. The monarch commissioned Drake to a voyage to the South Pacific via South America. He sailed to the West African coast, and crossed over to Brazil in 1578. His flagship 'Golden Hind' made its way through the Strait of Magellan. The successful seaman made the queen happy by returning after the trips that took him to the Philippines and around the Cape of Good Hope, laden with treasure. His fame was immense by the time he died of fever during a voyage to the West Indies.

10. Fridtjof Nansen

This Norwegian explorer who did a pioneering crossing of Greenland in 1888 and led an expedition to the North Pole did something unusual - he designed a ship that would withstand ice, hoping to take the ship to the North Pole. The ship crossed the Arctic Ocean in the ice undamaged but didn't succeed in reaching the Pole. Nansen tried to reach his destination with skis and kayaks, but without success. His reaching the farthest northern latitude in 1895 was a record.

Nansen was a statesman too. He was Norway's first minister to Britain and head of the country's delegation to the League of Nations, in which he was the high commissioner for refugees. In 1922 Nansen won the Nobel Prize for Peace. He is remembered for the Nansen Passport, an identification for displaced persons.

11. Henry Hudson

The British maritime explorer for whom Hudson River was named. He was the first European to sail up the river. He cruised along this river in his search of the Northeast Passage in his ship 'Half Moon'. His discoveries were largely responsible for the Dutch colonisation of the Hudson River and for the English presence in Canada. Hudson Bay is the world's largest inland sea, connected to the Atlantic Ocean by the Hudson Strait. Hudson explored the bay in 1610. A man who is remembered for several achievements had a sad end. His mutinous crew set him adrift to die in an open boat.

12. Henry Morton Stanley

Originally John Rowlands. He was born in Wales, but migrated to USA in 1859. Stanley as an explorer is associated with the discovery of central Africa. His travels were centred around the search for David Livingstone, the British explorer whose whereabouts remained mysterious since he went to Africa in 1866. He was commissioned by the *New York Her-*

ald for this job. He made a stop in Egypt. Then he went to Zanzibar. He found Livingstone on Nov. 10, 1871 at Ujiji on Lake Tanganyika. His words, "Dr. Livingstone, I presume" on meeting the missing explorer are famous. The two explored Lake Tanganyika together.

Stanley did further explorations for Belgian King Leopold II in the 1880s. He went along the Lualaba River and travelled down the Congo River.

He created Congo Free State in central Africa. In 1888, he escorted Mehmed Emin Pasha who was in trouble. Stanley's famous works are *Through the Dark Continent* and *In Darkest Africa*.

13. Hernando de Soto

A Spanish explorer who is known as the first White man to cross the Mississippi. He led his expedition to Darien in Panama in 1519. In 1528 he explored the coasts of Central America and accompanied Pizarro to Peru in 1530 taking part in the conquest of the Incas. In 1538 he landed in Florida with 600 men and marched northwards looking for gold. That is how he came to the Mississippi. Soto died on the return journey.

14. Hleun Tsang

A Buddhist monk who travelled to India in the 7th century, to study Buddhism. Setting out from China on a 16-year journey, he covered a distance of 64,000 km going as far as the edge of the Gobi Desert in Central Asia, eastwards as far as Samarkand, and then turned south to cross the Mountains of the Hindu Kush into India. When he returned to China, the Emperor asked him to write an account of his travels which he did in an admirable manner.

15. Ibn Battuta

Born in the 14th century in Morocco, Battuta is estimated to have travelled 120,000 km. in four expeditions.

on foot. His travels took him to Mecca, North Africa, the Red Sea, Persia, Kenya, Tanzania, Egypt, Syria, Palestine, Russia, Afghanistan and India. An interesting point in Ibn Battuta's life came in 1333, when he was appointed the ambassador to China by the Sultan of Delhi. Battuta was the greatest of all Muslim explorers.

18. James Cook

He took the credit for finding and charting all of New Zealand and exploring the eastern coast of Australia goes to James Cook, the Englishman, who is known as Captain Cook. He was a navigator and cartographer who led three expeditions to the Pacific. In the first, he studied the economic potential of the South Pacific. In the second, he charted much of the Southern Hemisphere and circumnavigated Antarctica. His ship 'Resolution', was accompanied by the 'Adventurer'. Cook found New Caledonia, the South Sandwich Islands, and South Georgia Island. The group of 15 islands in the south-east Pacific Ocean discovered by him are called Cook Islands. Cook is remembered for conquering scurvy during the voyage by providing fresh vegetables for his crew. On his third voyage, Cook discovered the Hawaiian Islands but there his end came. He was killed in a quarrel with Hawaiians.

19. John Cabot

An Italian navigator and explorer who was known as Giovanni Caboto, he led two expeditions for England. The first was an expedition to find trade routes to Asia. He reached Newfoundland in 1497. Landing somewhere on the North America he took possession of the land for King Henry VII. John Cabot's discovery served as the basis for Britain's claims in North America. In his second expedition, his boat was probably lost at sea.

20. Juan Sebastian del Cano

A Spanish navigator who successfully com-

pleted the first voyage around the world in 1522. He was captain of Victoria, one of the five ships that set out on Magellan's expedition. After Magellan was killed, del Cano took over and completed the first circumnavigation of the world. Cano died in 1526 on a second expedition.

19. Marco Polo

Marco Polo was a Venetian traveller, who inspired people to explore thus becoming instrumental in the growth of Venice as a centre of international trade. In 1274, he joined his father and uncle in trading expeditions to Cathay (China) in 1271; stayed for 24 years under the patronage of Kublai Khan, the Mongol ruler of Cathay, who sent Marco on a series of journeys to India, Burma, Ceylon and south east Asia. Marco Polo returned to Venice in 1295. His account "The Description of the World" became an important source of European knowledge of China for many years to come.



20. Martin Frobisher

After a number of years as a 'privateer', Frobisher, who explored the Arctic Ocean for England, made three attempts to discover the Northeast Passage. Only one (the "Gabriel") of his three ships managed to survive storms and Atlantic waves. He sighted Baffin Island, the largest island in Canada and the third largest in the world. The Frobisher Bay is named after him. When Frobisher returned, he carried with him samples of some black rock which were believed to contain gold. This turned out to be rock of no value. Frobisher's credibility was shattered. He later joined Francis Drake's expedition to the West Indies. He also played a role in the campaign against Spain for which he was knighted.

21. Neil Armstrong

US astronaut Neil Armstrong has a place in history. He was the first man to set foot on the moon. A Navy pilot during the Korean War, Armstrong was chosen as a NASA astronaut in



1962, and was the command pilot of Gemini 8, in 1966. In July 1969, when the Apollo 11 mission successfully landed on the moon, Armstrong took his first step on the moon, with the historic words, "one small step for a man,

one giant leap for mankind!" Edwin Aldrin (b. 1930), joined him 19 minutes later. They walked on the moon, took pictures and collected rock samples. The third crew member Michael Collins stayed in the command module.

22. Nils Nordenskjöld

He is remembered for accomplishing the navigation of the Northeast Passage which connects the Atlantic and Pacific Oceans. Nordenskjöld, a Finnish born scientist, did the voyage aboard the 'Vega', a ship with steam engines and sails, sailing through thick fog and snowstorms. When pack ice made progress impossible, the scientist stayed in the ice carrying out research. It was after about a year that they could resume.

23. Pedro Alvares Cabral

The man who discovered Brazil. This Portuguese navigator was sent by Manuel I of Portugal on an expedition in 1500 to the East Indies on the route pioneered by Vasco da Gama. There were 13 ships in this second Portuguese Voyage to India. It was on April 22, 1500 that Cabral landed on the coast of what is now Brazil. Cabral went farther into the east and landed at Mozambique. On reaching Calicut, he established the first commercial treaty between India and Portugal. His return journey was beset with problems, only four ships reached Portugal in 1501.

24. Polybius

A Greek historian and explorer who wrote the history of the Roman empire. He travelled to Asia Minor, Egypt, Italy, France and Spain. He was present at the destruction of Carthage in 146 B.C.

25. Roald Amundsen

This Norwegian explorer is the first person ever to reach the South Pole (14 December 1911). He was the first to sail the Northwest Passage between 1903-1906 and one of the first two explorers to fly over the North Pole. He circled the Pole twice in an airship along with Italian explorer Umberto Nobile in 1926. Amundsen's expedition at the South Pole completed humankind's mastery of the outer limits of the globe.

26. Robert Edwin Peary

US naval officer who became a well-known Arctic explorer. He was the first explorer to reach the North Pole. He made several trips to Greenland. The first of his five expeditions towards the North Pole was undertaken in 1893. Peary and his team claimed to have reached the North Pole on April 6, 1909.

27. Sebastian Cabot

Son of John Cabot, he served both English and Spanish Kings. This navigator and cartographer was put in charge of a Spanish expedition in 1525. The journey to South America didn't yield much. Under the British monarch, he undertook an expedition in the search for a northeast passage from Europe to the Orient.

28. Sir Walter Raleigh

Raleigh who organised British expeditions for Queen Elizabeth I to North America was a soldier, explorer and writer. He fought in France and against Spain. When King James I came to power, he was imprisoned for writing the book *History of the World*. Exploration was his forte. He was released to lead a team to Guyana in

on foot. His travels took him to Mecca, th Africa, the Red Sea, Persia, Kenya, Tan-ia, Egypt, Syria, Palestine, Russia, Afghani- and India. An interesting point in tuta's life came in 1333, when he was de the ambassador to China by the Sul- of Delhi. Battuta was the greatest of all slim explorers.

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of the gold of El Dorado. The Spanish
t'tolerate him; he was imprisoned again.
me in 1618 when he was executed for
1. It is Raleigh who introduced tobacco
tato to Europe. He also authored poetry
emoirs.

Vasco da Gama

na, the Portuguese navigator, was
st European to travel by sea to India
us open the sea route from Western
e to the East. It was at the initiative
tugal's King Manuel
Gama was sent to In-
Earlier he had
ded the Cape of
l Hope, and travelled
Mozambique and
a. There were some
fortunate incidents in India where Por-



tuguese settlers had been killed. King of
Portugal avenged these. Gama's mission
ended in Portuguese supremacy in the East-
ern spice trade. Gama became the Portu-
guese viceroy in India in 1524, but he died
shortly after arriving in Goa.

30. Yuri Gagarin

The Russian cosmonaut who became the
first man ever to travel in space, on 12 April,
1961. He orbited the earth
aboard Vostok 1 for 89 min-
utes, 302 km from its surface,
strapped to his seat for the
whole of his journey before
landing safely. Gagarin be-
came a hero overnight. He
never went on a space trip again. He was
killed in 1968 in an accident on a routine
training flight.



On a raft from Peru to Polynesia

his is the story of a young Norwegian
biologist who led a unique expedition in
7, drawing inspiration from legends.
Thor Heyerdahl built a balsawood raft 'the
'Tiki' and sailed from the Pacific coast of
th America to Polynesia to show that the
Incan inhabitants of Peru might have
migrated to Polynesia.

he young Norwegian was in the
quesas, an island chain in the Pacific,
n he noticed that the winds and sea
ys flowed from the east. He had heard
stories - one was a local legend about
e, bearded ancestors who came from
east. The other was a Peruvian tale about
ite chieftain who escaped a massacre by
ng in a balswood raft to the west.
Heyerdahl began to work on the two
. He thought perhaps the Pacific islands
been peopled by South American ex-
ers, and not by sailors from Indonesia.
adventurer in him wanted to test this
ry. He built a raft, and was joined by five
panions. The raft was 45 foot long. It
named Kon-Tiki for the chieftain he

believed had led the Pacific migration in AD
500.

Kon-Tiki covered about 4,300 miles. It
broke up on a reef in the Tuamotu Archi-
pelago. On the 101st day, the Heyerdahl
team hit the headlines. The trip was the
subject of his best-selling 'Kon-Tiki' pub-
lished in 1950.

The year 1969 saw Heyerdahl sailing a
reconstruction of an ancient reed boat 'the
Ra' from Morocco to the Caribbean. He was
trying to demonstrate that Mediterranean
peoples could have preceded Columbus to
the New World.

'Tigris' was his next adventure. He took
the reed craft in 1977 from the Tigris river in
Iraq across the Arabian Sea to Pakistan and
back to the Red Sea. He claimed that two-
way trading journeys could have spread the
Sumerian culture to the east.

Though Heyerdahl became a hero, aca-
demics were not prepared to accept his
theories. Experts did, however, acknowl-
edge that a migration from the West was
possible.

Lok Sabha Since 1951

India became independent on Aug. 15, 1947. The Constitution came into force on Jan. 26, 1950. It provided for direct election to Lok Sabha and State Legislative Assemblies on the basis of adult franchise. The First General Election for the

Lok Sabha was held from Oct. 25, 1951 to Feb. 21, 1952. Fourteen general elections (1951-52, 1957, 1962, 1967, 1971, 1977, 1980, 1984-85, 1989, 1991, 1996, 1998, 1999, 2004) have been held far.

Lok Sabha Elections (1951 to 2004)

Lok Sabha	Dates of General Elections	Seats	Candidates	Polling
First	1951 Oct. 25 to 1952 Feb.21	489	1874	44.87
Second	1957 Feb. 24 to March 14	494	1519	45.44
Third	1962 Feb. 16 to 25	494 -497	1985	55.42
Fourth	1967 Feb. 15 to 25	520	2369	61.04
Fifth	1971 March 01 to 10	518 -522	2784	55.27
Sixth	1977 March 16, 18, 19, 20	542	2439	60.49
Seventh	1980 Jan. 03, 06	542	4629	56.92
Eighth	1984 Dec. 24, 27, 28 - 1985 Sept.25, Dec.16	542 -543	5492	64.07
Ninth	1989 Nov. 22,24, 26	543	6160	61.95
Tenth	1991 May 20, June 06,08,12,15,22	543	8780	55.71
Eleventh	1996 April 27, May 02,07,23,30	543	13952	57.94
Twelfth	1998 Feb.07,16,22	543	4750	61.97
Thirteenth	1999 Sept. 05, 11,18,25 Oct.03	543	4643	59.99
Fourteenth	2004 April 20, 26 May 05,10	543	5435	58.07

First Lok Sabha (1952 - 1957)

West Bengal Chief Secretary Sukumar Sen was appointed as the Election Commissioner. He formulated a viable electioneering system for Indian electors, more than half of them illiterates. Raja Anand Chand was the first elected candidate in the Lok Sabha election. He was declared elected

unopposed from the part C state of Sikkim. He was victorious even before a vote was cast in the election. 1874 candidates contested for 489 seats and 1874 were elected unopposed. He won the election bagging 34% of the total votes, the second largest party

General Election - 1951

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
1. BJS	94	3	3.06
2. BPI	1	0	0.02
3. CPI	49	16	3.29
4. FBL (MG)	22	1	0.91
5. FBL (RG)	6	0	0.13
6. HMS	31	4	0.95
7. INC	479	364	44.99
8. KLP	29	1	1.41
9. KMPP	145	9	5.79
10. RCPI	2	0	0.06
11. RRP	61	3	1.97
12. RSP	9	3	0.44
13. SCF	35	2	2.38
14. SP	254	12	10.59
Total National Parties	1217	418	76.00
State Parties	124	34	8.10
Independents	533	37	15.90
Grand Total	1874	489	

Prime Minister: Pandit Jawaharlal Nehru (13.05.1952 to 17.04.1957)

Date of first sitting after

constitution : 13.05.1952

Date of dissolution : 04.04.1957

Speakers: Ganesh Vasudev Mavalankar (15.05.1952 to 27.02.1956)

M. Ananthasayanan Ayyangar (8.3.1956 to 10.5.1957)

Deputy Speakers : M. Ananthasayanam Ayyangar (30.05.1952 to 07.03.1956)

Sardar Hukhum Singh (20.03.1956 to 04.04.1957)

Leader of the House : Pandit Jawaharlal Nehru (13.05.1952 to 04.04.1957)

Lok Sabha Secretary General : M.N. Kaul (During the full term of the Lok Sabha)

Women members : 23

Life Span : 1788 days

Number of sessions held : 14

Number of sittings held : 677

Bill introduced and passed

(Government bills) : introduced: 274, Passed: 319

(Private members bills) : introduced: 135, Passed: 7

Second Lok Sabha (1957-1962)

Dates of Elections : February 24th to March 14th 1957. Out of 193 million electorate, over 93 million exercised their franchise.

This was the first Lok Sabha general election after the reorganisation of states on linguistics basis. Delimitation on constituencies was

ld simultaneously with the formation of
w states. Total number of seats rose to

494. Congress party came to power, by
winning 371 seats.

General Election - 1957

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
BJS	130	4	05.97
CPI	110	27	08.92
INC	490	371	47.78
PSP	189	19	10.41
Total National Parties	919	421	73.08
State Parties	119	31	07.60
Independents	481	42	19.32
Grand Total	1519	494	

Prime Minister	: Pandit Jawaharlal Nehru (05.04.1957 to 10.04.1962)
Date of first sitting after	
constitution	: 10.05.1957
Date of Dissolution	: 31.03.1962
Speaker	: M.Ananthasayanam Ayyangar (11.05.1957 To 16.04.1962)
Deputy Speaker	: Sardar Hukkam Singh (17.05.1957 To 31.03.1962)
Women members	: 24
Leader of The House	: Pandit Jawaharlal Nehru (05.04.1957 To 31.03.1962)
Deputy Speaker /	
Secretary General	: M.N.Kaul (During the full term of the Lok Sabha)
Life Span of Lok Sabha	: 1787 Days
Number of Sessions Held	: 16
Number of Sittings Held	: 567
Bills Introduced	: Government - 274, Private Members: 194
Bills Passed	: Government - 316, Private Members: 2

Third Lok Sabha (1962-1967)

ates of Elections: 16 February to 25, 1962.
olling was held for nearly ten days. All two-
ember constituencies were changed to
ngle member seats. Out of 216 million
oters, 47.45 percent participated in the

election. 1985 candidates contested for 494
seats. Three candidates were elected unop-
posed. With 361 seats, Congress party se-
cured victory in the third consecutive elec-
tion.

General Election - 1962

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
CPI	137	29	
INC	488	361	

S	196	14	6.44
PSP	168	12	6.81
SOC	107	6	2.69
SWA	173	18	7.89
Local National Parties	1269	440	78.50
Recognised Parties	217	28	9.28
Registered (Unrecognised) Parties	20	6	1.17
Independents	479	20	11.05
Grand Total	1985	494	

Prime Ministers : Pandit Jawaharlal Nehru (10.04.1962 to 27.05.1964)
 Gulzari Lal Nanda (interim) (27.05.1964 to 09.06.1964)
 Lal Bahadur sastri (09.06.1964 to 11.01.1966)
 Gulzari Lal Nanda (interim) (11.01.1966 to 24.01.1966)
 Indira Gandhi (24.01.1966 to 13.03.1967)

Date of First Sitting After

Constitution : 16.04.1962

Date of Dissolution : 03.03.1967

Speaker : Sardar Hukhum Singh (17.04.1962 To 16.03.1967)

Deputy Speaker : S.V.Krishnamoorthy Rao (23.04.1962 To 03.03.1967)

Members of The House : Pandit Jawaharlal Nehru (02.04.1962 To 27.05.1964)

Gulzari Lal Nanda (27.05.1964 To 9.06.1964)

Lal Bahadur Shastri (09.06.1964 To 11.01.1966)

Gulzari Lal Nanda (11.01.1966 To 24.01.1966)

Satya Narayan Sinha (14.02.1966 To 03.03.1967)

Chief Lok Sabha Secretary/Secretary

General : M.N.Kaul (Up To 01.09.1964)

S.L.Shakdar (From 01.09.1964)

Women members : 37

Life Span of Lok Sabha : 1783 Days

Number of Sessions Held : 16

Number of Sittings Held : 578

Bills Introduced : Government - 278, Private Members: 177

Bills Passed : Government - 273, Private Members: 3

Fourth Lok Sabha (1967-1970)

This was the first general elections without Pandit Jawaharlal Nehru. His daughter Indira Gandhi was at the helm of the election campaign. Polling was held between 15 February and 21 February. Total voters crossed 25

crore mark. 61.04 percentage of voters cast their votes. 2,369 candidates campaigned for 520 seats. Five candidates were elected unopposed. Congress Party got simple majority with 283 seats.

General Election - 1967

Party	Candidates		Valid Votes %
	Contested	Won	
National Parties			
1. BJS	249	35	9.31
2. CPI	109	23	5.11
3. CPM	59	19	4.28
4. INC	516	283	40.78
5. PSP	109	13	3.06
6. SSP	122	23	4.92
7. SWA	178	44	8.67
Total National Parties	1342	440	76.13
State Parties	148	43	9.69
Registered (Unrecognised) Parties	13	2	0.39
Independents	866	35	13.78
Grand Total	2369	520	

Prime Minister	: Indira Gandhi (13.03.1967 to 18.03.1971)
Date of First Sitting After Constitution	: 16.03.1967
Date of Dissolution	: 27.12.1970
Speakers	: Neelam Sanjiva Reddy (17.03.1967 To 19.07.1969) Gurdial Singh Dhillon (08.08.1969 To 19.03.1971)
Deputy Speakers	: R.K.Khadikar (23.03.1967 To 28.03.1969) G.G.Swell (09.12.1969 To 27.12.1970)
Leader of The House	: Indira Gandhi (04.03.1967 To 27.12.1970)
Leader of The Opposition	: Dr. Ram Subhag Singh* (17.12.1969 To 27.12.1970)
Lok Sabha Secretary/ Secretary General	: S.L.Shakdar (During The Full Term Of The Lok Sabha)
Women members	: 32
Life Span of Lok Sabha	: 1383 Days
Number of Sessions Held	: 12
Number of Sittings Held	: 469
Bills Introduced	: Government - 196, Private Members: 347
Bills Passed	: Government - 219, Private Members: 2

*First Leader of Opposition In The Lok Sabha.

Fifth Lok Sabha (1971-1977)

General Election - 1971

Party	Candidates		Valid Votes %
	Contested	Won	
National Parties			
1. BJS	157	22	
2. CPI	87	23	

PM	85	25	3.12
IC	441	352	43.68
CO	238	16	10.43
SP	63	2	1.04
SP	93	3	2.43
WA	59	8	3.07

al National Parties	1223	451	77.84
e Parties	224	40	10.17
istered (Unrecognised) Parties	203	13	3.62
ependents	1134	14	8.38
and Total	2784	518	

ne Minister	: Indira Gandhi (18.03.1971 To 24.03.1977)
te of First Sitting After	
onstitution	: 19.03.1977
te of Dissolution	: 18.01.1977
akers	: Gurdial Singh Dhillon (22.03.1971 To 01.12.1975), Bali Ram Bhagat (05.01.1976 to 25.03.1977)
puty Speaker	: G.G.Swell (27.03.1971 To 18.01.1977)
ader of The House	: Indira Gandhi (15.03.1971 To 18.01.1977)
nk Sabha Secretary/	
ecretary General	: S.L.Shakdar (During The Full Term Of The Lok Sabha)
omen Members	: 26
fe Span of Lok Sabha	: 2133 Days
umber of Sessions Held	: 18
umber of Sittings Held	: 613
ills Introduced	: Government - 378, Private Members: 282
ills Passed	: Government - 487, Private Members: Nil

Sixth Lok Sabha (1977-1979)

Sixth Lok Sabha election was very significant in Indian politics because this was during the famous national emergency (1975-77). Congress (O), BLD, Jan Sangh and Socialist Party joined together and formed a new party called Janata Party. Janata Party and Congress for Democracy, a Congress splinter group led by

Jagjivan Ram, fought the elections in alliance. Number of Lok Sabha seats rose to 542. Polling was spread over four days from Mar. 16 to Mar. 20, 1977. Total electorate had risen to 320 million. 193.7 million (60.5%) cast their votes. Janata party came to power with 295 seats and Congress got only 154 seats.

General Election - 1977

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
. BLD	405	295	41.32
. CPI	91	7	02.82

M	53	22	04.29
2	492	154	34.52
O	19	3	01.72
National Parties	1060	481	84.67
Parties	85	49	08.80
tered (Unrecognised) Parties	70	3	01.03
endents	1224	9	05.50
d Total	2439	542	

Minister	: Morarji Desai (24.03.1977 to 28.07.1979) Charan Singh (28.07.1979 to 14.01.1980)
of First Sitting After stitution	: 25.03.1977
of Dissolution	: 22.08.1979
kers	: Neelam Sanjiva Reddy (26.03.1977 To 13.07.1977) K.S.Hegde (21.07.1977 To 21.01.1980)
ity Speaker	: Godey Murahari (01.04.1977 To 22.08.1979)
ers of The House	: Morarji Desai (23.03.1977 To 28.07.1979) Choudhary Charan Singh (28.07.1979 To 22.08.1979)
ers of Opposition	: Y.B. Charan (23.3.1977 to 12.4.1978) C.M.Stephen (12.04.1978 To 10.07.1979) Y.B.Chavan (10.07.1979 To 28.07.1979) Jagjivan Ram (28.07.1979 To 22.08.1979)
Sabha Secretary/ retary General	: S.L.Shakdar (Up To 18.06.1977) Avtar Singh Rikhy (From 18.06.1977)
ten members	: 18
span of Lok Sabha	: 881 Days
umber of Sessions Held	: 9
umber of Sittings Held	: 267
Introduced	: Government - 161, Private Members: 249
Passed	: Government - 136, Private Members: Nil

Seventh Lok Sabha (1980-1984)

seventh Lok sabha general elections were held on 3rd and 6th January 1980. Elections were held only in 529 seats. There were no elections in 12 constituencies in Assam and one in Meghalaya. 4629 candidates were in the fray. Out of 363 million electorate, 200 million cast votes. Congress returned to power with 353 seats.

General Election - 1980

Party	Candidates		Valid
	Contested	Won	Votes %
ional Parties			
CPI	47	10	2.49
CPM	64	37	6.24
NC(I)	492	353	42.69

Mane

JNP	433	31	18.97
JNP(S)	293	41	9.39
Total National Parties	1541	485	85.07
State Parties	106	34	7.69
Registered (Unrecognised) Parties	156	1	0.81
Independents	2826	9	6.43
Grand Total	4629	529	

Prime Ministers	: Indira Gandhi (14.01.1980 to 31.10.1984) Rajiv Gandhi (31.10.1984 to 31.12.1984)
Date of First Sitting After Constitution	: 21.01.1980
Date of Dissolution	: 31.12.1984
Speakers	: Bal Ram Jakhar (21.01.1980 To 15.01.1985)
Deputy Speaker	: G. Lakshmanan (1.2.1980 to 31.12.1984)
Members of The House	: Indira Gandhi (10.01.1980 To 31.10.1984) Rajiv Gandhi (31.10.1984 To 31.12.1984)
Deputy Speaker/Secretary General	: Avtar Singh Rikhy (Up To 31.12.1983) Dr. Subash C. Kashyap (From 31.12.1983)
Life Span of Lok Sabha	: 1807 Days
Number of Sessions Held	: 15
Number of Sittings Held	: 464
Bills Introduced	: Government - 290, Private Members: 435
Bills Passed	: Government - 336, Private Members: Nil

Eighth Lok Sabha (1984-1989)

General Election - 1984

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
1. BJP	229	2	07.40
2. CPI	66	6	02.70
3. CPM	64	22	05.72
4. ICS	39	5	01.62
5. INC	517	415	48.12
6. JNP	219	10	06.66
7. LKD	173	3	05.64
Total National Parties	1307	462	77.86
State Parties	165	66	12.05
Registered Parties	126	00	00.68
Independents	3894	13	09.41
Grand Total	5492	542	

Prime Ministers	: Viswanath Pratap Singh (02.12.1989 to 10.11.1990) Chandrasekhar (10.11.1990 to 21.06.1991)
Date of First Sitting After Constitution	: 18.12.1989
Date of Dissolution	: 13.03.1991
Speakers	: Rabi Ray (19.12.1989 to 09.07.1991)
Dy. Speaker	: Shivraj V Patil (19.03.1990 To 13.03.1991)
Leaders of The House	: Viswanath Pratap Singh (02.12.1989 To 10.11.1990) Chandra Shekhar (10.11.1990 To 13.03.1991)
Leader of the Opposition	: Rajiv Gandhi (18.12.1989 To 24.12.1990)
Lok Sabha Secretary/ Secretary General	: Dr.Subash C.Kashyap (Up To 20.08.1990) K.C.Rastogi (From 27.07.1990)
Women members	: 28
Life Span of Lok Sabha	: 451 Days
Number of Sessions Held	: 7
Number of Sittings Held	: 109
Bills Introduced	: Government - 81, Private Members:156
Bills Passed	: Government - 63, Private Members: Nil

Tenth Lok Sabha (1991-1996)

Elections for tenth Lok Sabha were held on 20 May, 6, 8, 12, 15 and 22 June 1991. No elections were held in Jammu and Kashmir and Punjab went to polling stations in 1992. 8780 candidates contested for 534 seats. Total

number of voters rose to 520 million voters went to polling stations with 244 seats emerged as the largest party, 28 seats short of simple majority.

General Election - 1991

Party	Candidates		Valid
	Contested	Won	Votes %
<u>National Parties</u>			
1. BJP	477	120	20.04
2. CPI	43	14	02.43
3. CPM	63	35	06.14
4. JD	313	59	11.77
5. JD (S)	02	00	00.37
6. JP	351	05	03.34
7. ICS (SCS)	28	01	00.35
8. INC	502	244	36.55
9. LKD	90	00	00.05
Total National Parties	1859	478	81.04
State parties	506	51	13.08
Registered Parties	843	04	02.21
Independents	5574	01	04.01
Grand Total	8780	534	

Prime Ministers	: P.V. Narasimha Rao (21.06.1991 to 19.03.1996)
Date of First Sitting After Constitution	: 09.07.1991
Date of Dissolution	: 10.05.1996
Speaker	: Shri B.S. Puri (21.07.1991 To 21.06.1996)
Deputy Speaker	: S. Mallikarjuniah (23.06.1991 To 21.06.1996)
Leaders of The House	: Arjun Singh (21.07.1991 To 20.11.1991) P.V. Narasimha Rao (20.11.1991 To 19.03.1996)
Leaders of Opposition	: L.K. Advani (21.06.1991 to 23.07.1993) A.B. Vajpayee (23.07.1993 To 10.05.1996)
Lok Sabha Secretary, Secretary General	: K.C. Rastogi (Up To 31.12.1991) C. Chidan (From 01.01.1992 To 31.03.1994) S.N. Mishra (From 01.01.1995)
Life Span of Lok Sabha	: 1768
Sittings Held	: 423
Number of Sessions Held	: 16
Bills Introduced	: Government - 248, Private Members - 416
Bills Passed	: Government - 234, Private Members - 1

Eleventh Lok Sabha (1996 - 1997)

General Election - 1996

Party	Candidates		Total Votes %
	Contested	Won	
National Parties			
1. AINC (I)	321	04	01.46
2. BJP	471	151	20.29
3. CPI	43	12	01.97
4. CPM	75	32	06.12
5. INC	529	140	23.20
6. JD	196	46	03.08
7. JP	102	00	00.19
8. SAMATA PARTY	81	05	02.17
Total National Parties	1817	403	69.06
State Parties	761	129	22.43
Registered Parties	733	02	02.20
Independents	10635	09	06.25
Grand Total	13952	543	

Prime Ministers	: A.B. Vajpayee (16.05.1996 to 01.05.1998) H.D. Deve Gowda (01.06.1996 to 21.04.1997) L.K. Advani (21.04.1997 to 19.03.1998)
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Date of First Sitting After Constitution	: 22.05.1996
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Date of Dissolution	: 04.12.1997
Speaker	: P.A.Sangma (23.05.1996 To 23.03.1998)
Dy. Speaker	: Suraj Bhan (12.07.1996 to 04.12.1997)
Leaders of The House	: A.B.Vajpayee (16.05.1996 To 01.06.1996) Ram Vilas Paswan (11.06.1996 To 04.12.1997)
Leaders of The Opposition	: P.V.Narasimha Rao (16.05.1996 To 01.06.1996) A.B. Vajpayee (01.06.1996 t 4.12.1997)
Lok Sabha Secretary/ Secretary General	: S.N.Mishra (Up To 15.07.1996) S.Gopalan (From 15.07.1996)
Women members	: 40
Life Span of Lok Sabha	: 562 days
Number of Sessions Held	: 6
Number of Sittings Held	: 125
Bills Introduced	: Government - 67, Private Members:158
Bills Passed	: Government - 64, Private Members: Nil

Twelfth Lok Sabha (1998 - 1999)

Elections were held on 7, 16, 22 February 1998. Out of 606 million electors, 368 million participated in polling process. 4750 candi-

dates were in the fray for 543 seats. No got simple majority but BJP with 182 was the single largest party.

General Election - 1998

Party	Candidates		Valid Votes %
	Contested	Won	
1. BJP	388	182	25.59
2. BSP	251	05	04.67
3. CPI	58	09	01.75
4. CPM	71	32	05.16
5. INC	477	141	25.82
6. JD	191	06	03.24
7. SAMATA PARTY	57	12	01.76
Total National Parties	1493	387	67.98
State Parties	471	101	18.79
Registered Parties	871	49	10.87
Independents	1915	06	02.37
Grand Total	4750	543	

Prime Minister	: A.B.Vajpayee (19.03.1998 To 13.10.1999)
Date of First Sitting After Constitution	: 23.03.1998
Date Of Dissolution	: 26.04.1999
Speaker	: G.M.C. Balayogi (24.03.1998 to 20.10.1999)

Deputy Speaker	: P.M. Sayeed (17.12.1998 To 26.04.1999)
Leader of The House	: A.B.Vajpayee (19.03.1998 To 26.04.1999)
Leader of The Opposition	: Sharad Pawar (19.03.1998 to 26.04.1999)
Secretary General	: S.Gopalan (During The Full Term of The Lok Sabha And Thereafter Up To 14.07.1999)
Life Span of Lok Sabha	: 400 Days
Number of session held	: 4
Women Members	: 44
Number of Sessions Held	: 4
Number of Sittings Held	: 88
Bills Introduced	: Government - 71, Private Members:122
Bills Passed	: Government - 60, Private Members:Nil

Thirteenth Lok Sabha (1999- 2004)

Election were held on 05,11,18, 25 September and 03 October 1999. 4648 candidates contested for 543 seats. BJP-led NDA formed government with TDP's outside support.

General Election - 1999

Party	Candidates		Valid
	Contested	Won	Votes %
National Parties			
1. BJP	339	182	23.75
2. BSP	225	14	04.16
3. CPI	54	04	01.48
4. CPM	72	33	05.40
5. INC	453	114	28.30
6. JD (S)	96	01	00.91
7. JD (U)	60	21	03.10
Total National Parties	1299	369	67.11
State Parties	750	158	26.93
Registered Parties	654	10	03.22
Independents	1945	06	02.74
Grand Total	4648	543	

Prime Minister	: A.B. Vajpayee (13.10.1999 to 22.05.2004)
Date of First Sitting After Constitution	: 20.10.1999
Date of Dissolution	: 06.02.2004
Speakers	: Manohar Joshi (10.05.2002 To 02.06.2004)
Deputy Speaker	: P.Sayeed (27.10.1999 To 06.02.2004)
Leader of The House	: A.B.Vajpayee (13.10.1999 To 06.02.2004)
Leader of Opposition	: Sonia Gandhi (13.10.1999 To 06.02.2004)
Lok Sabha Secretary/ Secretary General	: G.C.Malhotra (From 14.07.1999)
Women Members	: 45

10, 2004. 6,87,402 polling booths were
 nged for 671.5 million voters. 387.4 voters
 icipated in the election process. The voter
 out vote was 58.07 percent. 5435 candi-

absolute majority. But Congress-led UPA man-
 aged to form the government with outside
 support of Left parties. Congress was the single
 largest party with 145 seats.

Fourteenth General Election 2004

Party	Candidates		Valid Votes %
	Contested	Won	
Major National Parties			
Congress (I)	364	138	22.16
Nationalist Congress Party (NCP)	435	19	05.33
Indian National Congress (INC)	34	10	01.41
Communist Party of India (CPI)	69	43	05.66
Indian National Congress (C)	417	145	26.53
National Congress Party (NCP)	32	09	01.80
Other National Parties	1351	364	62.89
State Parties	801	159	28.90
Registered Parties	898	15	03.96
Independents	2385	05	03.96
Grand Total	5435	543	04.25

Prime Minister	: Manmohan Singh (22.05.2004 To.....)
President of First Sitting After Constitution	: 17.05.2004
Speaker	: Somanath Chatterjee (04.06.2004 To.....)
Deputy Speaker	: Charnjit Singh Atwal (10.06.2006 To)
Leader of The House	: Pranab Kumar Mukherjee (17.05.2004 To)
Leader of the Opposition	: L.K.Advani (02.06.2004 To)
Chief Sabha Secretary/ Secretary General	: G.C.Malhotra (14.07.1999 To 01.08.2005) P.D.T.Achary (01.08.2005 To)
Women Members	: 46

Parliaments of Selected Countries

Bangladesh: Jatiya Sangsad (Parliament)	Nepal: Rashtriya Panchayat
Bhutan: Tshogdu (National Assembly)	Norway: Storting
Brazil: Congress	Poland: Sejm
Canada: House of Commons and Senate	Sudan: Majlis Watani
Denmark: Folketing	Sweden: Riksdag
Iceland: Althingi	Tanzania: Bunge
Iran: Majlis	Turkey: Grand National Assembly
Israel: Knesset	U.K.: Parliament House of Lords and House of Commons
Japan: Diet	U.S.A.: Congress (House of Repr. & Senate)
Mongolia: The Great Hural	

Lok Sabha Party Position (as on 15/09/2006)

Total Seats 545

Vacant 18

PARTY, SEATS, LEADER

1. Indian National Congress (INC), 146 ,
Shri Pranab Mukherjee
2. Bharatiya Janata Party (BJP), 128 ,
Shri L.K. Advani
3. Communist Party of India (Marxist)
(CPI(M)), 42, Shri Basudeb Acharya
4. Samajwadi Party (SP), 38 , Prof. Ram
Gopal Yadav
5. Rashtriya Janata Dal (RJD), 23 , Shri
Lalu Prasad
6. Dravida Munnetra Kazhagam (DMK),
16 , Shri C. Kuppasami
7. Bahujan Samaj Party (BSP), 15 , Shri
Rajesh Verma
8. Shiv Sena (SS), 12 , Shri Anant Geete
9. Biju Janata Dal (BJD), 11 , Shri Braja
Kishore Tripathy
10. Communist Party of India (CPI), 10 ,
Shri Gurudas Dasgupta
11. Nationalist Congress Party (NCP), 10
12. Shiromani Akali Dal (SAD), 8 , Shri
Sukhdev Singh Dhindsa
13. Janata Dal (United) (JD(U)), 7 , Shri
Prabhunath Singh
14. Pattali Makkal Katchi (PMK), 6 , Prof.
M. Ramadass
15. Telangana Rashtra Samithi (TRS), 5 ,
Shri K. Chandrashekar Rao
16. Jharkhand Mukti Morcha (JMM), 5 ,
17. Telugu Desam Party (TDP), 4 , Shri K.
Yerrannaaidu
18. Lok Jan Shakti Party (LJSP) 4 , Shri
Ram Vilas Paswan
19. Marumalarchi Dravida Munnetra
Kazhagam (MDMK), 4, Shri L. Ganesan
20. Rashtriya Lok Dal (RLD). 3
21. Revolutionary Socialist Party (RSP),
3, Shri Joachim Baxla
22. Janata Dal (Secular) (JD(S)) , 3 , Shri
M.P. Veerendra Kumar
23. Kerala Congress (KEC) , 2 , Shri P.C.
Thomas
24. Jammu and Kashmir National Confer-
ence (J&KNC), 2
25. All India Forward Bloc (FBL), 2
26. Asom Gana Parishad (AGP), 2 , Dr.
Arun Kumar Sarma
27. All India Majlis-E-Ittehadul Muslimmen
(AIMIM), 1 , Shri Asaduddin Owaisi
28. All India Trinamool Congress (AITC) ,
1, Km. Mamata Banerjee
29. Bharatiya Navshakti Party (BNP), 1 ,
Shri Delkar Mohanbhai Sanjibhai
30. Jammu & Kashmir Peoples Democratic
Party (J&KPDP), 1, Ms. Mehbooba
Mufti
31. Sikkim Democratic Front (SDF) , 1 .
Shri Nakul Das Rai
32. Samajwadi Janata Party (Rashtriya)
(SJP(R)), 1 , Shri Chandra Shekhar
33. Republican Party of India(A) (RPI(A))
1, Shri Athawale Ramdas Bandu
34. National Loktantrik Party (NLP), 1 .
Shri Baleshwar Yadav
35. Nagaland Peoples Front (NPF), 1 .
Shri W. Wangyuh
36. Muslim League Kerala State Commu-
tee (MLKSC), 1 , Shri E. Ahmed
37. Mizo National Front (MNF), 1, Shri
Vanlalawma
38. Independent (Ind.)

Rajya Sabha Party Position (as on 15-09-2006)

Vacancy	2
(INC) Indian National Congress	72
(BJP) Bharatiya Janatga Party	49
(SJ) Samajwadi Party	15
(CPI M) Communist Party of India (Marxist)	14
(AIADMK) All India Anna Dravida Munnetra Kazhagam	12
(BSP) Bahujan Samaj Party	7
(RJD) Rashtriya Janata Dal	7
(TDP) Telugu Desam Party	6
(JD U) Janata Dal (United)	5
(NCP) Nationalist Congress Party	5
(BJD) Biju Janata Dal	4
(SS) Shiv Sena	4
(AITC) All India Trinamool Congress	3
(INLD) Indian National Lok Dal	3
(AIFB) All India Forward Block	2
(CPI) Comunist Party of India	2
(DMK) Dravida Munnetra Kazhagam	2
(SAD) Shiromani Akali Dal	2
(JD S) Janata Dal (Secular)	2
(UKNC) J&K National Conference	1

(MNF) Mizo National Front	1
(ML) Muslim League	1
(NPF) Nagaland People's Front	1
(PMK) Pattali Makkal Katchi	1
(PDP) Peoples Democratic Party	1
(RLD) Rashtriya Lok Dal	1
(RSP) Revolutionary Socialist Party	1
Samata Party1	1
(SDF) Sikkim Democratic Front	1
(SBP) Swatantra Bharat Paksh	1
Nominated	7
Independent	9

List of Nominated Members

Shri Shyam Benegal	1
Smt. Shobhana Bhartia	1
Kumari Nirmala Deshpande	1
Smt. Hema Malini	1
Dr. Bimal Jalan	1
Shri Ram Jethmalani	1
Dr. K. Kasturirangan	1
Dr. Narayan Singh Manaklao	1
Dr. Chandan Mitra	1
Shri Dara Singh	1

Parliament : Common Terms

Adult franchise: Voting right conferred on every adult, without distinction, to elect any candidate he or she may choose.

Plebiscite: Direct vote of electors on a political issue of importance (very rarely resorted to).

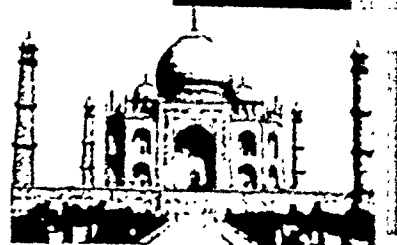
Proportional Representation An electoral system under which a legislature reflects the strength of the various political parties among

the electorate at large. It has several forms.

Ratification The formal adoption by a state of a treaty signed by its representatives. It is effected by an exchange of documents, embodying their formal adoption of the treaty, between the states concerned.

Referendum A reference of a particular political question to the electorate for a direct decision by popular vote.

Places of Interest



Acropolis (Ancient Greece): The citadel of ancient Athens, which contained the Parthenon, the Erechtheum, etc.

Actium (Ancient Greece): Known for the Battle of Actium, which established the victory of Octavian over Antony and Cleopatra (31 BC).

Addis Ababa (Ethiopia): Capital and biggest city. Name means 'New Flower'. Hq. of African Union, and UN Economic Commission for Africa. Emperor Haile Selassie I ruled the country for about 50 years until deposed in 1974.

Agra (U.P.): The home of Taj Mahal, India's most famous monument, on the banks of the Yamuna. The Taj Mahal, "A

uddin Chishti's tomb is here.

Akshardham (Gujarat): Temple in Gandhinagar where a terrorist attack killed 33 people in 2002.

Al Aqsa Mosque (Jerusalem): Islam's third holiest place, after Mecca and Medina.

Alaska (USA): Bought by USA from Russia in 1867.

Albany (USA): Capital of N. York state. Albany Congress (1754) was the US colonial gathering of delegates at which Benjamin Franklin proposed a plan of union for the separate British colonies.

Alexandria (Egypt): City founded by Alexander the Great.

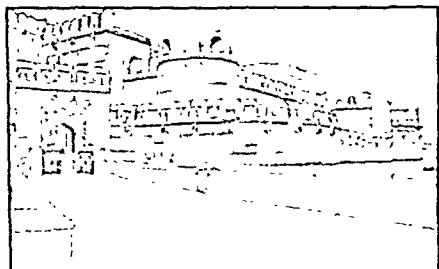
Algiers (Algeria): Capital. Founded by Phoenicians. It became the capital of the French colony of Algeria in 1830. The Allies' hq in WWII. N. Africa's chief port on the Mediterranean. The 11th century Sidi Abderrahman Mosque attracts tourists.

Aligarh (U.P.): An ancient city, formerly known as Koilm with traces of Buddhist temples. Jamia Millia Islamia was founded here in 1920. Anglo Oriental College of Aligarh was converted into Aligarh Muslim University.

Allahabad (U.P.): Formerly Prayag. City at the confluence of the Ganges and the Yamuna. Anand Bhavan, the shrine to the Nehru Family. Some 20 m. pilgrims gathered here for the Kumbh Mela festival in 1995 - the largest religious crowd.

Altamira (Spain): Site of prehistoric cave paintings and engravings.

Amarnath (J&K): Known for the cave temple, visited by devotees of Lord Shiva who begin their
in Pandalgum, Or.
2400 m. R



Agra Fort, U.P.

tear drop on the face of humanity'. Work began 1632, took 22 years to complete the complex. Agra Fort is famous. An industrial town.

Aintree (U.K.): The racecourse near Liverpool where famous race Grand National has been run since 1839.

Ajanta (Maharashtra): Famous for the Buddhist caves, which date from 200 BC to AD 650. A World Heritage Site.

Ajmer (Rajasthan): Muslim pilgrim centre. The 12th century Sufi saint Khwaja Moin-

Amritsar (Punjab): The holiest shrine of the Sikhs, the Golden Temple is here.

Amsterdam (The Netherlands): Capital. Major European port.

Anandapur Sikh temple (Punjab): In 1999 over 1m. Sikhs gathered here to celebrate 300th anniversary of the Sikh Khalsa, one of the Sikh orders - the biggest gathering of Sikhs.

Anatolia (another name for Asia Minor): Turkey's Asian region that was part of the Ottoman Empire until Republic of Turkey came into existence.

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Angkor (Cambodia): It is the ancient Khmer capital and the temple complex. The greatest structure is Angkor Wat. The complex was destroyed by Thai invaders.

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Andes (S. America): Longest mountain range in the world.

Arlington (USA): Location of the Pentagon. National Cemetery built in 1864, where prominent Americans have been buried.

Armenia (S. Caucasus): An advanced kingdom, mountainous. Republic today. It was part of USSR. Has problems with Azerbaijan over Nagorno-Karabakh.

Aruba (The Caribbean): Dutch island, autonomous. Capital is Oranjestad.

Arusha National Park (Tanzania): Rich in flora and fauna. The site of Mount Meru and the extinct volcano Ngurdoto Crater.

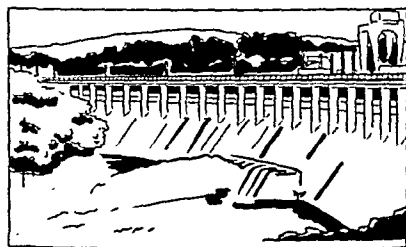
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Ashanti (Ghana): A kingdom of the Ashanti people annexed to the British colony of Gold Coast (Ghana) in 1901. Now a province with capital at Kumasi.

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Asti (Italy) : Town known for its sparkling white wine, Asti Spumante.

Aswan (Egypt): City on the bank of the Nile. Aswan High Dam was built (1960-1970) with Soviet aid.



Aswan Dam

Atacama Desert (Chile): The most arid region in the world. Stretches about 1000 km.

Atlanta (USA): Capital of Georgia. Founded in 1837, originally called Terminus, Marthasville in 1845, and Atlanta in 1947. Headquarters of Coca Cola. Hosted 1996 summer Olympic Games.

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Babylon (Iraq): It was the capital of the Babylonian empire on the Euphrates River, south of Baghdad (modern Iraq). Greatest ruler was Nebuchadnezzar (605-562 B.C). Hanging Gardens were one of the Seven Wonders. Babylon fell in 538 B.C.

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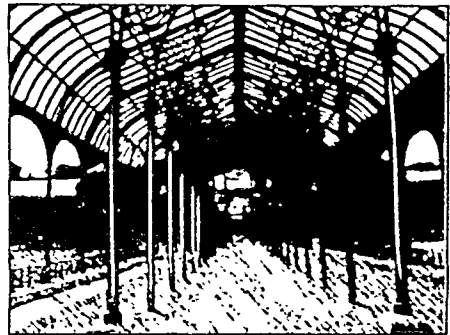
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civil war and Kosovo conflict.

Bandung (Indonesia): The Non-Aligned Movement had its beginning in the Bandung Conference, 1955 with 29 countries representing more than half the world attending.

Bangalore (Karnataka) Capital. Founded in 16th c. by Kempa Gowda. Fifth largest In-



Glasshouse, Bangalore

dian city. Asia's Silicon Valley. The fastest-growing Indian city is also known as the Garden City.

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Beira (Mozambique): Chief port of Mozambique, Zimbabwe and Malawi. Founded 1891. Under Portugal until 1942.

Beirut (Lebanon): Capital . At the foot of

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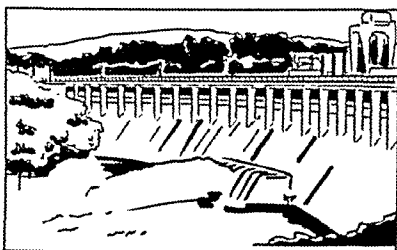
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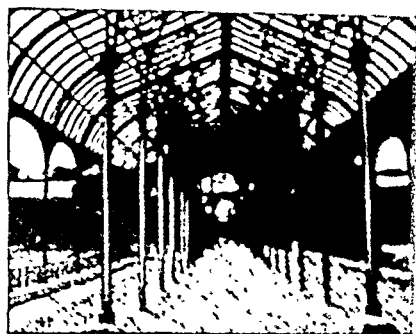
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Lebanon Mountains. It was the chief banking and cultural centre of the Middle East. Heavily damaged in civil war 1979-90.

Belgrade (E. Europe) : Formerly capital of Yugoslavia and of the kingdom of Serbia. An important commercial centre in the Balkans. Suffered under Nazi occupation ('41 - '44). Kosovo conflict hit Belgrade. Now, capital of Serbia-Montenegro.

Belitung or Billiton (Indonesia): An island in the Java Sea, whose tin mines have attracted a large Chinese community.

Belmopan (Belize): Made capital of Belize in 1970, following major hurricane damage to Belize city in 1961.

Belorussia (Central Europe): Modern name Belarus. Was part of USSR, now member, CIS.

Benin Kingdom (Africa): A historic kingdom (13th-19th c.). Trade centre for ivory and slaves. Later became part of British Nigeria.

Ben Nevis (Scotland): The highest peak in the British Isles (1,343m.) in the central Grampian Mountain range.

Berchtesgaden (Germany): A resort in the Bavarian Alps, the site of Hitler's fortified mountain retreat, the Beghof.

Bering Sea (Pacific Ocean): Its islands include the Pribilofs, Aleutians, Nunivak, etc. Discovered by Danish explorer Vitus Bering. The Bering Strait is said to have formed a land bridge by which on final inhabitants of N. America arrived from Asia.

Berlin (Germany): Capital. Founded in 13th c., capital of Prussia, of German empire (1871). In 1948 Soviet-controlled East Berlin and West Berlin (controlled by US, UK, France) were born. The airlift of supplies by British and American aircraft, following WWII, after Soviet attempts to isolate the city from the West is known as Berlin Airlift. The blockade was lifted in 1949. Berlin Wall was built by East German government (1961) to seal off E. Berlin from W. Berlin to prevent illegal migration. Wall was opened in 1989.

Bermuda (West Atlantic): A British overseas territory. Old name: Somers Islands. Bermuda,

the Greater Antilles and the US coast marked the 'Bermuda Triangle', an area where aircraft and ships are reported to have vanished mysteriously.

Beslan (Russia): On Sept. 1, 2004, Chechen rebels loyal to Shamil Basayev took over a school in Beslan for two days. A failed rescue operation ended in the death of 350, of whom 172 were children.

Bethlehem (now under Palestine): Birthplace of Jesus Christ. The early home of King David. Annexed by Jordan in 1950. Later, with the rest of West Bank. Turned over to Palestine Authority in 1995.

Bharatpur (Rajasthan): Founded 1734. Capital of former Indian Princely State of Bharatpur. Keoladeo National Park.

Bharuch (Gujarat): Important port of western India since AD 80.

Bhimbetka (M.P.): Rock shelters with paintings from the mesolithic period.

Bhopal (M.P.): Capital. The second largest Muslim principality of the British empire. Founded in 11th century. Begums of Bhopal were Muslim women rulers of 18th c. The toxic gas leak tragedy, the worst industrial accident, occurred in 1984.

Bhubaneswar (Orissa): Capital. The 'City of Temples'. Temples date from 7th to 13th centuries which saw a revival of Hinduism. Over 400 temples (out of some 7000 in the past) remain, including the 11th century Lingaraj Temple.

Biafra (Nigeria): Under Col. Ojukwu, the Igbo people of Biafra tried to break away from Nigeria. Civil war of 1967-70.

Bijapur (Karnataka): Capital of the Adil Shahi sultans, principal rulers of the Deccan in 16th & 17th c. Its most celebrated building is the tomb of Muhammad Adil Shah, 'the Gol Gumbaz'.

Bikini (Pacific) Atoll in the Marshall Islands: Site of US nuclear tests, and first H-bomb test (1952).

Birmingham (U.K.): Britain's second largest city, developed rapidly in the Industrial Revolution.

Calcutta (W. Bengal): Formerly capital of Hindu Mughal kingdom (founded 8th c.).
Bissau (Africa): Capital of Guinea-Bissau. 1941 it replaced Bolama as capital.

Bloomsbury (U.K.): Intellectuals who are known as Bloomsbury Group (early years of 20th century) met here. E.M. Forster, Virginia Woolf and J.M. Keynes were members.

Bodhi Gaya (Bihar): Village where the Buddha attained enlightenment under the Bodhi tree.

Bhilai (Jharkhand): Steel City. Steel plant, with Soviet aid, completed in the 80s.

Bologna (Italy): Industrial town. It has one of the world's oldest universities, which began as a law school in 425.

Bombay High (India): The country's offshore oil area in the Arabian Sea. Responsible for one-third of the oil produced by India. A major oil spill in July, 2005.

Bonn (Germany): Capital of West Germany from 1949 to 1990, when the two Germanys were unified. Beethoven was born here.

Borneo (Malay Archipelago): World's third largest island. Thinly populated. Sabah and Sarawak are part of Malaysia, Brunei is independent, Kalimantan state belongs to Indonesia.

Bosnia (E. Europe): The international crisis that led to the outbreak of WWI had its roots here. Austria-Hungary annexed Bosnia and Herzegovina and trouble began. It has been in the news since 1990 as a scene of ethnic war. Part of the country Bosnia-Herzegovina.

Bosphorus: The strait joining the Black Sea to the Sea of Marmara. On its eastern shore is Istanbul.

Boston (USA): This Atlantic seaport, capital of Massachusetts, was focus of pre-Revolutionary War (Boston Massacre 1770, Boston Tea Party 1773, etc). Now an important manufacturing, financial and educational centre.

Bougainville (PNG): Volcanic island in the Southwest Pacific Ocean. Scene of guerrilla warfare since 1980.

Brasilia (Brazil): Capital, laid out in the shape of an aircraft. Inaugurated in 1960.

Bratislava (Slovakia): It was the capital of Hungary from 1541 to 1784. In Czechoslovakia, it was the third largest city. Bratislava is on the river Danube. An industrial city.

Bretton Woods (USA): A 1944 international conference here led to the establishment of IMF.

Brindisi (Italy): A centre of the crusades in the middle ages. A naval base.

Brisbane (Australia): Founded as a penal colony. Town (1834) named after former governor of New South Wales. The country's third largest city.

British East Africa: Former British territories in East Africa-Uganda, Kenya, Tanganyika, Zanzibar.

British West Africa: Former name for Nigeria, Gambia, Sierra Leone, Gold Coast, Togoland, Cameroon.

Brno: The Czech industrial city where the Bren gun, a gas-operated light machine gun, was developed.

Broadway (USA): Principal theatre district located on or near the street Broadway in New York.

Brunei (Southeast Asia): Sultanate. Sultan Bolkiah was world's richest person for many years. In 16th c., Brunei ruled over the whole of Borneo and parts of the Philippines.

Brunswick (Germany): It has the oldest technical university in Germany.

Brussels (Belgium): Capital. It was capital of the Spanish Netherlands in the Middle Ages. Hq. of EU and NATO.

Bubastis (Egypt): A ruined temple city in Lower Egypt now known as Tell Basta. It was sacred to the cat goddess Bast.

Budapest (Hungary): Capital created in 1873 by merging the towns of Buda and Pest, on the two sides of the Danube. It was one of the two capitals of the Austro-Hungarian Empire.

Bucharest (Romania): Capital and the country's largest city. On River Dambouita.

Founded in 14th c. Occupied by Germans in WWI and WWII. Has famous churches and museums.

Bukhara (Uzbekistan): One of the oldest cities and trading centres of Asia. It was the centre of a powerful kingdom. Rapid growth after discovery of natural gas in the '50s.

Buland Darwaza (Agra): A gateway to Fatehpur Sikri. At 186 feet, the highest gate in the world.

Byblos (Ancient Phoenicia): Chief city of Phoenicia in 2nd millennium B.C., on the site of modern Jebeil. Famous for Papyrus, nicknamed biblos, from which the word 'Bible' is derived.

Caen (France): Port, tomb of William the Conqueror.

Cairo (Egypt): Largest African city. Pyramids are nearby.

Calabar (Nigeria): Port, centre of the slave trade in 18th & 19th centuries.

California (USA): Most populous US state. Major towns: San Francisco, Los Angeles, San Diego, Sacramento. Centre of micro electronics industry in Silicon Valley. Disneyland.

Calvary (Jerusalem, Golgotha in Hebrew): The hill outside the city of Jerusalem where Jesus Christ was crucified.

Cambridge (UK): City on River Cam. One of world's greatest universities. First college Peterhouse founded in 1284.

Cambridge (USA): Harvard University is the oldest (1636) US college. MIT moved from Boston, 1915.

Camp David (USA): The US President's retreat in the Appalachian Mountains where the Middle East peace treaty was signed by Sadat and Begin (1978) with President Carter mediating.

Campoformido (Italy): Treaty of Campo Formido of 1797 was signed here between Austria and France, after Austria was defeated by Napoleon.

Cana (Palestine): Northeast of Nazareth. Jesus Christ is believed to have performed his first miracle here.

Canaan (Israel): Ancient Palestine before it was occupied by the Jews was 'Canaan' - referred to in the Bible as the land promised to the Israelites by God.

Canary Islands (Spain): Group of islands in the Atlantic Ocean, of volcanic formation.

Cannes (France): Venue of the most prestigious international film festival.

Canterbury (England): City in east Kent, seat of the Archbishop of the Anglican Church. Famous for the cathedral where Thomas Becket was assassinated (1170).

Canton (China): Port, commercial centre of S. China. Focus of the first Opium War. Sun Yat Sen was born here.

Canyon de Chelly (USA): National monument in Arizona, established in 1931 to protect Indian cliff dwellings dating from AD350.

Cape Canaveral (USA): Known as Cape Kennedy, 1963-73. Launch site for US space programme.

Cape of Good Hope (S. Africa): Discovered by Bartolomeu Diaz in 1488. He called it the Cape of Storms.

Capernaum (Israel): Site of many biblical events, situated on the northern shore of the Sea of Galilee.

Cape Town (S. Africa): The oldest white settlement in S. Africa. Founded 1652. Country's legislative capital, second largest city and chief seaport. Venue of CHOGM summit of 1999.

Cape Verde (Senegal): The westernmost point of Africa.

Capitol (USA): Where the US Congress meets in Washington.

Capri (Italy): Island, which was a favourite resort of Roman emperors. Today a big tourist attraction.

Capri (Italy): Island at the entrance to the Bay of Naples. Popular resort. Its cavern accessible only by sea. The Blue Grotto, is an attraction.

Cardiff (UK): Capital of Wales. Its Welsh name is Caerdydd.

Carthage (Tunisia): Ancient town founded by Phoenicians (814 BC). Destroyed in Punic Wars. It was founded again by Caesar and Octavian. Arabs destroyed it (698).

Casablanca (Morocco): The port city where Churchill and F.D. Roosevelt met for the Casablanca Conference in 1943.

Catania (Italy): In Sicily. Often damaged by eruptions of Mt. Etna.

Cayenne (French Guiana): Capital and seaport. Founded in 1643 by the French. A penal colony.

Chaco (Paraguay-Bolivia): Chaco War (1932-35) between the two countries in the disputed Northern Chaco area. Paraguay was the winner.

Champa (Magadha): Ancient Indian city, capital of the Kingdom of Anga. In Buddhist literature, Champa is one of the six great N. Indian cities of 6th BC. A kingdom of this name was later founded in Annam, which is now in Vietnam.

Champagne (France): Noted for the production of champagne wine.

Champaran (Bihar): The struggle of indigo planters here was an issue that put Gandhiji's satyagraha to test.

Chandrapur (Maharashtra): Capital of the Gond dynasty, 12th to 18th c. Part of Central Provinces, 1854-1947.

Chandranagar (W. Bengal) settled by the French in 1673. England captured it but again was under the French. Merged with India in 1949. Now known as Chandannagar.

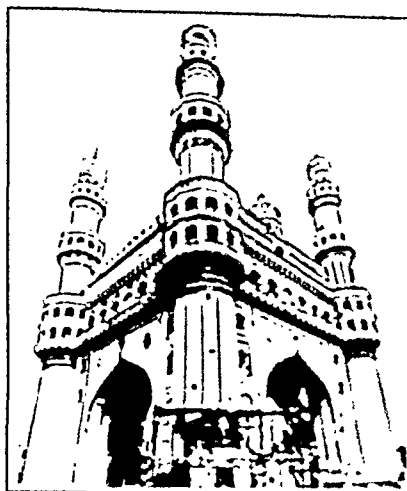
Chandigarh: Capital of both Punjab and Haryana. India's first planned city, designed by Le Corbusier.

Chandragiri (A.P.): When the king of Aravidu dynasty of Vijayanagar was overthrown in 1565, their capital was moved to Chandragiri, site of a fort from 1000.

Changsha (China): Historic trade centre, capital of Hunan Province.

Channel Islands (US): Island group of the British Isles in the English Channel (Jersey, Guernsey, etc).

Charminar (A.P.): An important landmark. Hyderabad. 400-year old city of minarets and palaces.



Charminar, Hyderabad

Chauri Chaura (U.P.): A mob attacked police station and killed 22 policemen here following which Gandhiji suspended the Civil Disobedience Movement.

Chechnya (Russia): A constituent republic of Russia in north Caucasus. Resistance to Russian rule by Chechnya since 19th c. Chechen rebels keep carrying out attacks.

Chennai (Tamil Nadu): Capital. India's fourth largest city. Formerly known as Madras. Big industrial centre. Sri Parthasarathy Temple (built in 8th century) and Santhome Cathedral (1504) are here. The first English church built in India (1678) is in Chennai.

Cherrapunji (Meghalaya): One of the wettest places on earth, Rain 2621 cm. in 1861. Average 1143 cm. in monsoon months.

Chicago (USA): City on the shore of Lake Michigan. Devastated by fire in 1871. A major port, industrial, shipping, cultural centre. Largest rail terminal in the world. One of the busiest airports. World's first skyscraper was built here in 1885.

Chillika Lake

water lake in Asia.

Chittagong (Bangladesh): Seaport, country's chief port.

Cluny (France): Town where the Cluniac order of Benedictine monks was established in 910.

Cognac (France): Town on river Charente, known for the brandy of the same name produced here.

Columbatoro (Tamil Nadu): Tamil Nadu's second largest city, major industrial centre, and the state's commercial capital. Textile industry centre.

Colditz (Germany): A castle here was used as a prison camp in WWII, for Allied escapers.

Coldstream (Scotland, UK): Town known for Regiment of Coldstream Guards raised here first (1660) to restore Charles II.

Colorado (USA): Famous for Colorado National monument (1911) which has towering monoliths and canyons.

Colosseum (Rome): Amphitheatre built in AD 70-82 between gladiators and of men with animals.

Columbia (U.S.A): State capital. Burned by Gen Sherman in 1863.

Communism Peak (Tajikistan): Mountain in central Asia, known as Mount Garmu until 1933 and Stalin Peak until 1962. It was the highest peak in the former Soviet Union.

Concord (USA): The beginning of American War of Independence was marked by Battle of Concord (1775).

Constantinople (Turkey): Byzantium from 330 to 1204. Capital of Byzantine Empire, the eastern half of the Roman empire. Fell to Ottoman Turks (1453). Now, Istanbul.

Cook Strait (Pacific Ocean Channel): Separates New Zealand's North and South Islands. Discovered by Captain Cook in 1770.

Copperbelt (Africa): A region in Cen. Africa, with the largest copper deposits in Africa.

Coral Sea (or Solomon Sea): It has many coral islands. Was scene of US victory over Japanese, 1942.

Cordoba (Spain): City which was the capital of Moorish Spain in 8th c. Great Mosque (970).

Corfu (Greece): Island in the Ionian Sea. British protectorate from 1815 to 1864.

Corinth (Greece): A powerful city of ancient Greece. Destroyed by Romans, 146 B.C., rebuilt by Caesar, 44 BC.

Corpus Christi (USA): A port, on Corpus Christi Bay, channel access to Gulf of Mexico.

Corsica (France): Largest island of France. Napoleon Bonaparte was born here.

Cotopaxi (Ecuador): Highest active volcano in the world.

Crete (Greece): Largest Greek island. Settled from 6000 BC. Minoan civilization, 2000 BC.

Crimea (Ukraine): Peninsula in South Ukraine, now an autonomous republic of Ukraine. Crimean War (1853-56) fought by Britain, France and Ottoman Turks against Russia.

Cuernavaca (Mexico): A resort city which has Cortes' palace.

Dahomey (Africa): Modern name Benin. A French protectorate 1894, in French West Africa 1904, independence 1960. Named Benin 1975.

Da Nang (Vietnam): A port on the South China Sea. It had a major US airbase during the Vietnam War. Formerly known as Tourane.

Darjeeling (W. Bengal): A former British hill station at the foot of the Himalayas. Mount Everest and Kanchenjunga can be seen from Darjeeling.

Darwin (Australia): Port, Allied HQ in WWII. Bombed by Japan in 1942. A 1974 cyclone destroyed the city.

Davos (Switzerland): A resort, the venue of World Economic Forum, 2000.

Dayton (USA): The scene of the Peace Accord of 1995 that ended the Bosnian civil war.

Delphi (Greece): A village famous in ancient Greece as the sanctuary of Apollo and the seat of his oracle.

Dhaka (Bangladesh): Capital. From 1608.

Calcutta, capital of Mughal province of East Bengal, of British province of East Bengal & Assam, 1757-1912. of East Pakistan, 1947; of Bangladesh since 1971. 'The city of mosques'. Centre of world's biggest jute-growing region.

Dharamsala (Himachal Pradesh): The home of the Dalai Lama and the Tibetan Government-in-exile. Hill station established in mid-19th century.

Dharavi (Mumbai): Asia's largest slum.

Diego Garcia (India Ocean): Island, American military airbase. Treaty was signed in 1966 between US and UK for the use of the island.

Digha (W. Bengal): Known as Beercool in the days of Warren Hastings. One of world's best beaches.

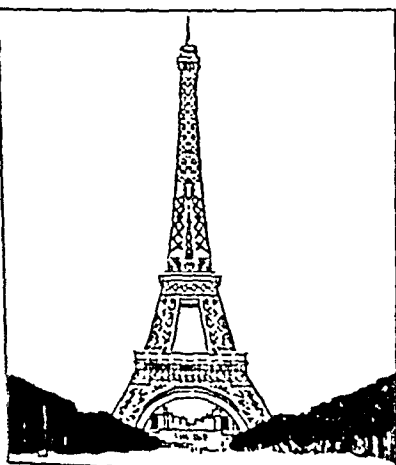
Dootton (Ohio, USA): Hometown of Wilbur and Orville Wright.

Dresden (Germany): A centre of Napoleon's military operations. The beautiful city was damaged in WWII bombing. Known for art galleries and other cultural institutions.

Dudhsagar Falls (Goa- Karnataka border): Highest in India. 600 m.

Dumbarton Oaks (US): The first blueprints for setting up UN were formulated here in 1944.

Dumbarton (Scotland): An engineering and ship building centre.



Eiffel Tower, Paris

Dunkirk (France): Seaport. Scene (in 1940) of the evacuation of over 300,000 Allied troops under fire, as France fell to Germany.

East Anglia (UK): A powerful Anglo-Saxon kingdom of 6th century. The region of east England, it has very fertile agricultural land.

Edinburgh (UK): Capital of Scotland. Robert the Bruce was king of Scotland from 1306-29. Home to Adam Smith, David Hume, Robert Burns and Walter Scott. Home to University of Edinburgh. Famous for Edinburgh Festival of music and drama.

Eiffel Tower (Paris): An iron tower erected for the Paris Exhibition of 1889, on Seine river, Paris, designed by A.G. Eiffel. World's most visited site.

Elba (Italy): Island in the Ligurian sea where Napoleon lived after his abdication.

Elephanta Caves (Maharashtra): Cave temples on Elephanta Island off the west coast of the State.

Ellora (Maharashtra): Known for the cave temples and architecture that attract tourists in large numbers.

Ephesus (Turkey): An important archaeological site. A leading port under Greeks and Romans. Temple of Artemis, one of the seven wonders of world is here.

Essen (Germany): On the Ruhr river, it is home to the Krupp steel works, Europe's most extensive iron and steel works. Destroyed in WW II.

Eton (UK): Seat of Britain's most famous public school, Eton College, founded in 1440.

Eureka Stockade (Australia): Scene of an armed clash in 1854 when government was forced to back down, in the face of public opinion following goldminers on whom expensive mining license was imposed.

Everglades (Florida, USA): Large marshland which has mangrove forests, island masses of vegetation, snakes, turtles and alligators. It contains Everglades National park.

Evian (France): Village of the same name. June 2003.

Exeter (SW England) : This city on river Exe has many ancient buildings, esp. the 13th century Norman Cathedral and the remains of Roman walls.

Eyre, Lake (Australia): At 15 m. below sea level, it is the lowest point on the continent.

Falkland Islands (UK): British crown colony in S. Atlantic Ocean. To Argentina, they are 'Malvinas'. War between Argentina and Britain over the Islands in 1982.

Fatima (Portugal) : Small village where three shepherd children claimed to have seen visions of the Virgin Mary in 1917.

Finland (Northern Europe): A wealthy country. Thousands of lakes. Some think human habitation here dates back 100,000 years.

Flanders (Belgium-France): The region frequently fought over by France, Spain and Austria is divided between Belgium and France. Scene of big trench warfare in WW I.

Florence (Italy): Cultural, intellectual centre of Italy, the rule of the Medice family being the most glorious time. Leading centre of the Renaissance. Capital of the Kingdom of Italy, 1865-71. The School of Florence includes Leonardo da Vinci, Michaelangelo and Raphael.

Florida (USA): It forms a long peninsula with thousands of lakes and many rivers. Belonged to the Spanish. America purchased it in 1819. Everglades, Florida Keys, Disney World, Miami, etc. are here.

Forbidden City (China): The public museums in Beijing were in the past imperial palaces where no commoner or foreigner could enter without special permission. The complex had some 9000 rooms.

Formosa (Taiwan's former name, Republic of China): Island in the Pacific. The Portuguese named it Formosa ("beautiful"), then was under the Dutch, and then under the Ming dynasty of China. Chiang Kaishek fled to Taiwan. Economic growth was spectacular from the 1950s.

Fort St. George (Tamil Nadu): A factory

trading post, completed on St. George's Day, (April 23, 1640) was the nucleus from which the British empire grew. It was East Indies Company's principal settlement until 1774. Outside the walls of Fort St. George was George Town.

Freetown (Sierra Leone) Capital. Founded in 1790s as a foundation for freed slaves. From 1808 to 1874, it was capital of British West Africa.

Galati (Romania) : City at the confluence of Danube and Siret rivers. Rebuilt after WWII. Port, shipyard.

Galapagos Islands (Ecuador) : Pacific archipelago on the equator. Volcanic islands in the sparse vegetation. Unique animal species include giant land tortoises. Galapagos National Park, a world heritage site.

Gallipoli (Turkey): Port on the European side of the Dardanelles; the first European city to be conquered by Ottoman Turks (1354). Famous for the Allied operation against Turks in WW I. After eight months of inconclusive fighting and deaths of 145,000 men, the Allies withdrew.

Gaul (France). Transalpine Gaul, the region that developed into the medieval kingdom of France.

Gauteng (S. Africa): The country's smallest but most populous province. Capital : Johannesburg

Gaya (Bihar): Gaya, along with Varanasi and Allahabad is one of the three most sacred sites for Hindu funeral rites.

Gaza Strip: Area (146 sq. mile) captured by Israel from Egypt, 1967. Mostly stateless Palestinians live there in refugee camps.

Gdansk (Poland). Formerly Danzig. Industrial port. 1980 saw labour unrest in the Lenin Shipyard, in support of 'Solidarity'. Lech Walesa, an electrician here, rose to become President of Poland.

Genoa (Italy): The country's largest seaport. Birthplace of Columbus.

Gettysburg (USA): Famous for Abraham

Lincoln's Gettysburg Address (1863) at the dedication of a war cemetery in Pennsylvania, where the Battle of Gettysburg was fought (1863) in the American Civil War.

Ggantija (Malta): Ggantija Temples (built 3600-3300 BC) are a Copper Age complex on island Gozo (the 'Isle of Calypso')

Gibraltar (UK): British Crown Colony. Smallest (6.5 sq.km) colony in the world. Played important role in Allied naval operations in WWI & WWII. Gibraltar Rock's height 426 m.

Gir (Gujarat): Sasan Gir National Park in Saurashtra, the only place where the Asiatic lion can now be found.

Goa (India): Former Portuguese enclave. Popular tourist destination, which has over 100 km of almost uninterrupted coastline and sunny weather. Palolem is one of its many beautiful beaches. Dabolim is Goa's airport.

Gobi (Central Asia): Desert of 1,295,000 sq.km. extending across China and Mongolia.

Golan Heights (Syria-Israel) This strategically important area of Syria was occupied by Israel in 1967 and annexed in 1981.

Gopalpur-on-Sea (Orissa) : Seashore town with beautiful beaches.

Gough Island: UK overseas territory in the South Atlantic, described as world's most important sea.

Granada (Spain): City founded by the Moors in the 8th century. Capital of the Kingdom of Granada, 1238. Tombs of Ferdinand and Isabella can be seen.

Golconda (A.P.): Capital of the Qutb Shahi Sultans of 16th c. Rich in historical monuments including the Golconda Fort.

Great Rift Valley : East African Rift System, extending from Jordan to Mozambique.

Great Slave Lake (Canada): Lake named for the slave Indians, drained by the Mackenzie River.

Great Smoky Mountains (USA): Part of the Appalachian Mountains. 2025m.

Greenwich (UK): The village near London. Greenwich Mean Time, the UK standard time,

(GMT) is based on local time of the meridian passing through Greenwich.

Gwalior (M.P.): The capital of many dynasties since A.D. 8th century. Gwalior Fort, Vilas Palace, Tomb of Tansen (the famous singer at Akbar's court) are important sites.

Haifa (Israel): City and port. Taken by Napoleon (1799), occupied by Britain, made part of Palestine. Since 1948 under Israeli control. Tourist resort, headquarters of the Balfour movement.

Haldighat: Scene of the great battle of 1576 in which Rana Pratap was defeated.

Halifax (Canada): Important city, busy port capital of Nova Scotia. Country's main naval base in world wars. Dalhousie University was founded in 1818.

Hamburg (Germany): Germany's largest port and foremost industrial city. It was a member of the German Confederation as a free city in 1815. Allied bombing destroyed the city in WWI, was rebuilt. Home to the Hamburg Opera.

Hampi (Karnataka): It contains the ruins of Vijayanagar and was the capital of three generations of Hindu rulers. Krishnadeva Raya and Achyuta Raya were the most illustrious rulers.

Harappa (Pakistan): The site of a great city of the Indus Valley Civilization. Cemeteries and brick buildings of Harappa were excavated in 1920s and 1946.

Harrow (London) Site of world famous private preparatory school for boys founded in 1571.

Harvard (USA): Harvard University at Cambridge, Massachusetts is the earliest (1636) US college. Alma mater of seven American Presidents.

Hebron (Palestine): A West Bank town, from where Israeli troops withdrew in 1997. Israeli soldiers are stationed in part of Hebron to protect the few hundred Jewish settlers there.

Hiroshima (Japan): City destroyed on Aug. 6, 1945 by the first atomic bomb dropped by USA.

Ho Chi Minh City (Vietnam): New name of Saigon. Former Capital of French Indo-China. Hq of US military operations in Vietnam War. Captured by N.Vietnamese troops and renamed.

Horsely Hills (A.P.): The summer resort in Chittoor district. Named after Collector W.D. Horsely.

Huntingdon (UK): Birthplace of Oliver Cromwell.

Hyderabad (A.P.): Hyderabad-Secunderabad is the twin city capital. Charminar, built by Mohammed Quli Qutb Shah (1591), is the principal landmark. Buddha statue, Salar Jung Museum and Hussain Sagar etc.

Ibadan (Nigeria): City founded in 1830s. Country's intellectual centre.

Iona (UK): A remote island of Mull in Scotland, the site of a monastery set up in AD 563.

Ionia (Turkey) : Important ancient region, western coast of Asia Minor. Miletus and Ephesus were leading cities. Ruled by Hellenistic kings until it became part of the Roman empire in 2nd century B.C.

Ionian Islands (Greece): Seven islands in the Ionian Sea, namely Corfu, Cephalonia, Zacyntus, Leucas, Ithaca, Cythera and Paxos.

Innsbruck (Austria) : Founded in 12th c., a commercial and industrial centre and winter sports resort.

Ipswich (U.K.) Town. Agricultural market for the region. Birthplace of Cardinal Wolsey.

Islamabad (Pakistan): Capital since 1967. A new city.

Jaipur (Rajasthan): The 'City of Victory' was founded in 1727 by Maharaja Jai Singh II. Included on the popular tourist 'Golden Triangle' of Delhi-Jaipur-Agra. The 'Pink City', its palaces, forts and museums are elegant.

Jakarta (Indonesia): Capital. Formerly Batavia. The Dutch founded it in 1619. Important centre of the Dutch East India Company.

Jallianwala Bagh (Punjab): Where Gen. R.E. H. Dyer opened fire on an unarmed assembly of people of Amritsar, who were protesting

against Rowlatt Act. Number of deaths 379, wounded 1208.

Jerusalem (Israel): A holy city of Christians, Jews and Muslims. Capital (declared 1950, lacks international recognition). Capital of Palestine 1922-48. Divided between Israel and Jordan, 1949.

Jhansi (U.P.): Known in association with its queen Rani Lakshmi Bai, who was active in the '1857 Mutiny'. Jhansi has a magnificent fort.

Jharia (Jharkhand) It has rich deposits of coal.

Junagadh (Gujarat): One of the three princely states that didn't accede to Indian Union in 1947. It was annexed to India on Nov. 9, 1948. It was the capital of Gujarat under the Kshattrapa rulers. Girnar Hill is the chief attraction.

Kachchativu (Sri Lanka): Island in the Palk strait given to Sri Lanka under an agreement in 1974.

Kaiga (Karnataka): It has an atomic power plant. Sea bird, the country's largest naval base, is coming up around here.

Kakrapar (Gujarat): Site of India's fifth atomic power project.

Kalimantan (Indonesia) : Part of Borneo, rich in timber. Scene of recurrent ethnic and political violence.

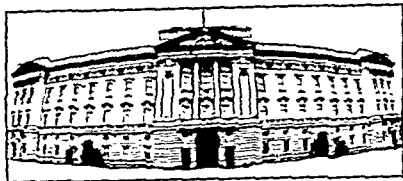
Kalinga (India): Emperor Asoka who crushed the Kalingan Kingdom at Dhauligiri near Bhubaneshwar (261 B.C.) was shocked by the horrors of war and converted to Buddhism.

Kalpakkam (T. Nadu): India's 50 MW experimental fast breeder test reactor is located here.

Kamakura (Japan City, former Japanese Capital). Now noted for its shrines, temples and 13 m. high bronze Buddha.

Kamchatka (Russia): A peninsula that separates the Sea of Okhotsk from the Bering Sea. It has lakes, forests and 20 active volcanoes.

Kampala (Uganda): Capital since 1962. It is on Lake Victoria. Founded by the British near



Buckingham Palace, London

violence followed. Ethnic Albanians were repressed by Serbs. NATO's air strikes (1999) hit Kosovo badly.

Kota (Rajasthan): Industrial city. Former Princely State. City Palace of 1625. Rich artistic heritage.

Kottayam (Kerala, India): The first town in India to achieve 100 percent literacy. Known for its lakes and rubber plantations. Well-known tourist destination. Kumarakom is 16 km from here.

Krakov or Cracow (Poland): Poland's third largest city. Pope John Paul II was born here.

Kremlin (Russia): The residence of tsars until 1712, political and administrative headquarters of USSR in 1918.

Kuala Lumpur (Malaysia): Capital. Petronas Twin Towers, until recently world's tallest building, are here.

Kurdistan (Iran): Inhabited by Kurds, who also live in Iraq, Turkey and Syria. 20 m. in number, the world's largest ethnic group without its own state.

Kuril Islands (Russia): Chain of 30 large and 26 smaller islands in Sakhalin region. In 1875 Russia gave the islands to Japan in exchange for full control of Sakhalin island. Ceded to USSR, after WWII.

Kurukshetra (Haryana) Scene of the battle between Kauravas and Pandavas; site of the Revelation of the Bhagavad Gita; one of the 16 Mahajanapadas or republics of 'Jambudvipa'.

Kutchch, Rann of (Gujarat): Region of salt marsh, scene of an Indo-Pak fighting, 1965.

Kyoto (Japan) ("Capital City"): Capital from 8th century to 1868. Centre of culture and

Buddhism. Kyoto University, 1897.

Ladakh (J&K): Region that accounts for two thirds of the state. Sparsely populated, it is a high altitude desert. Leh is its main town, and its ancient Buddhist monasteries attract tourists.

La Paz (Bolivia): The highest capital in the world (3631 m.)

Lapland (Arctic region of Europe): Extends over Norway, Sweden, Finland and the Kola peninsula.

Lausanne (Switzerland): On the northern shore of Lake Geneva. Tourist resort, convention centre. International Olympic Committee hq.

Leeds (UK): This West Yorkshire city was famous in 18th c. for its textile manufacturing. Industrial, cultural centre. Leeds Music Festival, International Pianoforte Competition etc.

Leningrad (Russia): Founded by Peter the Great in 1703. Called St. Petersburg, it was the capital of Russia for 200 years until 1918. At some time it was known as Petrograd. Russia's second largest city. The Hermitage Museum is here.

Leshan (China) : World's tallest Buddhist statue (71 metres) is here. It has a unique 24-hour 'electronic bodyguard'.

Lhasa (Tibet): At 3684 m., it was the highest capital in the world before domination of Tibet by China.

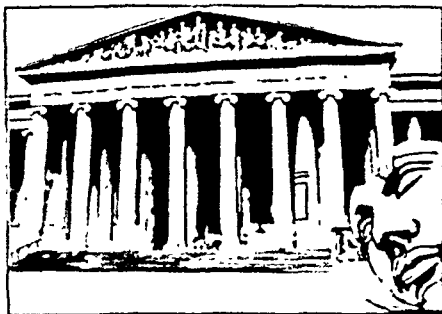
Libreville (Gabon): Capital. The name was given in 1848 after freed slaves were settled there.

Liechtenstein (Central Europe): A small principality of 157 sq.km, with very high per capita income.

Little Rock (USA): Capital of Arkansas. Supreme Court enforced a ruling against racial discrimination in schools in 1957.

Liverpool (UK): Sixth largest city in England and the principal Atlantic port. The Beatles belonged to Liverpool.

Locarno (Switzerland): Locarno Pact



British Museum, London

1925, resolving the status of the Rhineland and guaranteeing French-German and Belgian-German borders.

London (UK): Capital. A major trade, financial, cultural, political centre. Buckingham Palace, Westminster Abbey, Tower of London, Big Ben, Hyde Park, St. Paul's, British Museum, Downing Street, etc are landmarks.

Lopburi (Thailand): East of Bangkok, famous for the thousands of monkeys that live with human beings in the town.

Lord's (London, UK) Cricket ground; hq of M.C.C.

Lucknow (UP): Capital of the kingdom Avadh, and cultural capital of North India. Nawabs patronised arts. British annexed it.

Lugano (Switzerland) Resort town on the shores of Lake Lugano in Switzerland and Italy.

Lukung (J&K): LOAC separates Lukung and Chinese occupied territory. It has one of world's loftiest inhabited places around, and one of Asia's largest brackish water lakes. Lake Pangong, a tourist attraction, at 4267 m. is here.

Lusatia (Germany): The home of the Sorbs, an ancient Slav people.

Maastricht (Netherlands): European Union conference of 1991 was held in this city. Maastricht Treaty was the agreement on Europe's political, economic and monetary union.

Macedon (SE Europe) : Ancient country

(roughly the modern Macedonia). City of Thessaloniki founded by King Philip II (420 B.C.), father of Alexander the Great.

Machu Picchu (Peru): Ruined Inca city, discovered in 1911. A world heritage site.

Madagascar (Indian Ocean): World's fourth largest island, settled by Indonesians in 1st c. AD.

Madrid (Spain): Capital. Highest capital city in Europe (altitude 655 m).

Madurai (Tamil Nadu): One of south India's oldest cities. Sri Meenakshi Temple is here.

Mahe (Pondicherry) : Former French establishment. In the Malabar coast on the Western Ghats, surrounded by Kerala state.

Majuli (Assam): The largest inhabited riverine island in the world.

Malaga (Spain): Port. Ancient Malaca. Founded by Phoenicians in 12th c.B.C. Birthplace of Picasso.

Mali (Africa): A republic in West Africa. A mediaeval state which reached its peak in 14th c. Ruled by France 1881-95, territory of French Sudan until 1959.

Mamallapuram (T. Nadu) : A 7th century port city which has rock-cut temples. The site is named after Mamalla (= 'Great Wrestler'), the title of Pallava king Narasimha Varman I.

Manchuria (China): Sparsely populated mountainous area. The last Chinese emperors were Manchus. Under Russian control for long.

Manipur (India): This former Princely State was brought into India in 1826 by the Treaty of Yandabo at the end of the Indo-Burmese War. Statehood in 1972. Manipuri dance is famous.

Maramba (Zambia): Capital of N. Rhodesia 1911-1935. City first named Livingstone after the first explorer David Livingstone.

Marrakesh (Morocco): One of Morocco's four imperial cities (founded 1062). Former capital. Islamic, commercial, tourist centre.

Mashhad (Iran): The holy city of Shiites. The most number of pilgrims visit it each year who come to the holy Shiite Imam.

Mathura (U.P.): Birthplace of Lord Krishna. Situated on the banks of the river Yamuna. Hindu pilgrims consider it a holy spot. Dates back to 600 BC. Vrindavan is here.

Medina (Saudi Arabia): Islamic holy city that contains the tomb of Prophet Mohammed.

Mekong Delta (S.E. Asia): Mekong river's lower course has 1/3 of the population of Cambodia, Laos, Thailand and Vietnam. In 1957, UN's Mekong River Development Project began.

Memphis (USA): In Tennessee. Martin Luther King Jr. was assassinated here (1968).

Merseyside (U.K.): Country in northwestern England. It gave the world the Beatles, famous football teams and golf links.

Mexico City (Mexico): Capital. Largest city in the world. Olympic Games (1968). About 20,000 killed in an earthquake (1985).

Mizoram (Northeast India): Between Myanmar and Bangladesh, it was known until 1972 as 'Lushai Hills', a district of Assam. The Mizo tribal people are thought to have come from NW China in 7th century.

Mohanjo-Daro (Pakistan): A great site of the Indus Valley Civilization. The excavation in 1920s brought to light extensive brick-built remains.

Mombasa (Kenya): Chief port, industrial centre. It was the capital of East Africa Protectorate, 1888-1907. A British naval base in WWII.

Monaco (France-Italy border): Independent principality, 73 sq.km. A luxurious resort known for Monte Carlo gambling centre, car races and beaches.

Mont Blanc (French-Italian border): Highest mountain in the Alps. There is a 12 km road tunnel connecting the two countries.

Monte Cristo (Italy): Islet in the Tyrrhenian Sea. Association with the Duma novel *The Count of Monte Cristo*.

Montego Bay (Jamaica): Port and tourist capital of the country. Locally called Mobay.

Montenegro (in former Yugoslavia): Now part of Serbia and Montenegro. An ancient state of the Balkans. An independent kingdom, 1910-18. It joined the Kingdom of Serbs, Croats and Slovenes.

Monte San Giorgio (Switzerland): A pyramid-shaped, wooded mountain regarded as the best fossil record of marine life.

Montserrat (UK): Territory in the Caribbean. A 1997 volcanic eruption made two-thirds of the island uninhabitable.

Montreal (Canada): Second largest French-speaking city in the world. Venue of 1976 Olympics. Trade, finance centre.

Mount Ruapehu (New Zealand): Highest peak of North Island (2797 metre). Situated in Tongariro National Park. Intermittently active volcano.

Montreux (Switzerland): The 13th century chateau de Chillon. Figures in Byron's poem *Prisoner of Chillon*. Annual television festival awards the Golden Rose of Montreux.

Mount Ararat (Turkey): Extinct volcanic peak. Noah's Ark is said to have come to rest here.

Mount Isa (Australia): World's largest city in area-41, 225 sq.km.

Mount Kailas (Tibet): Also known as Mount Meru. The world's highest altitude pilgrimage ends here.

Mount U (China): A life-size army of about 7500 painted terracotta figures deployed in military formation underground was discovered here in 1974. First Chinese Emperor Qin Shihuangdi buried here.

Mumbai (Maharashtra): India's largest city and commercial capital. Capital of Maharashtra State, main seaport and industrial city.

Munich (Germany): Capital of Bavaria. Swedes occupied it in 1632 and the French in 1800. In 1920s, it was the centre of the Nazi Party. Munich Putsch (Beer hall Putsch) was an attempted coup in 1923 by Hitler to overthrow the republican government. Munich

vow made by the villagers when they were saved from the plague in 1633.

Odessa (Ukraine): Black Sea port. Centre of the battleship 'Potemkin' mutiny in the Revolution of 1905.

Okinawa (Japan): Island taken by USA in WW II, returned to Japan, 1972.

Oklahoma City (USA): Terrorists bombed a government office building in 1904, killing 168 people.

Olduvai Gorge (Tanzania): Rich archaeological site, where fossils and paleolithic implements were found. 'Homo habilis' was discovered by the Leakeys. Some 'Homo erectus' remains too found here.

Oudh (U.P.): Former province of British India. Its annexation by Britain (1856) was a cause of the Indian War of Independence in 1857.

Oxford (UK): City on the Thames. Oxford university, one of the oldest in Europe, dating from the 12th century.

Palam (Delhi): Palam airport now used for national air services.

Palermo (Italy): Port, capital of Sicily. Phoenicians founded it in 8th BC.

Palembang (Indonesia): Port. It was capital of a Hindu Sumatran kingdom of 8th c.

Palitana (Gujarat): On Shatrunjaya Hill, there is an amazing spectacle of a cluster of 863 Jain temples, dating to 16th c.

Panama (Central America): Occupies the Isthmus of Panama, the strip of land that links North and South America. USA built the Panama Canal, connecting the Atlantic and Pacific Oceans. In 1903 US got sovereignty over the Panama Canal Zone. Political turbulence tormented Panama for long. USA interfered on several occasions.

Panipat (Punjab): Three battles of Panipat (1526, 1556 & 1761) were important milestones in the history of the Mughal Empire.

Panaji (Goa): Capital at the mouth of the Mandovi river. Portuguese viceroy moved here following epidemics of Old Goa. In 1843 it

became the official capital of Portuguese territories in India.

Paris (France): Capital. Treaty of Paris (1761-3) ended Seven Years' War. Paris Peace Conference held after WWI. Hq. of UNESCO, etc. A main world tourist centre, centre of high fashion and luxury goods. Louvre, Eiffel Tower, Elysee Palace, Paris University (1170) etc.

Paros: Greek island in the Aegean Sea, famous for its white translucent marble used in sculpture.

Patmos (Greece): Island. Apostle St. John lived here for two years.

Patna (Bihar): Capital, formerly known as Pataliputra. A great Asian city in the days of Maurya and Gupta empires.

Pearl Harbour (USA): Naval base was bombed by Japan on Dec. 7, 1941. This brought USA into WW II.

Pedra Furada (Brazil): Rock shelter, believed to be the earliest human settlement in the Americas.

Penang (Malaysia): First British settlement in Malaya. Capital Pinang was formerly George Town.

Pentagon (USA): A huge five-sided building in Arlington. Hq. of US Defence Dept. It was world's largest office building (34 acres) when completed. On Sept. 11, 2001 part of the building was destroyed by terrorists who crashed an aircraft into Pentagon.

Perak (Malaysia): One of the wealthiest states, after tin was discovered in the 1840s.

Pergamum (Asia Minor): Ancient city, was capital of the Attalids.

Persepolis (Iran): Palaces and graves of the Achaemenid rulers of Persia are here in the mountains. Sacked by Alexander the Great (331 BC).

Peter and Paul Fortress (Russia): A stronghold founded by Peter the Great (1703) on an island. St. Petersburg sprang up around it. A museum.

Pitldown (UK): Fossilised skull fragments 'discovered' in 1912 in Pitldown, Sussex, were

believed to be the earliest human remains found in Europe. 'The Piltdown Man' was a hoax, it was known 40 years later.

Pitcairn Island (S. Pacific): One of a small group of islands, UK overseas territory. Area is 4.6 sq.km. and population only 48.

Pittsburgh(USA): The British took Fort Duquesne (built by the French) and renamed it Fort Pitt (1758). Third largest US corporate hq.

Plymouth (USA): Site of the first permanent European settlement in New England founded by the pilgrims in 1620. A tourist destination.

Polish Corridor (Poland): A belt of land that separated Prussia from the rest of Germany and was granted to Poland in the Treaty of Versailles (1919). Annexed by Germany (1939), returned to Poland (1945).

Pompeii (Italy): Ancient city at the foot of Vesuvius, which erupted in AD 79 covering the city with ashes and pumicestone 6-7m. deep.

Pondicherry (South India): The former capital of French territories in India. Established by Francois Martin in 1674. Aurobindo Ghose, poet and philosopher, lived here. 'The Mother' (Mitra Alfassa) was inspired by him. The Aurobindo Ashram here is an important landmark. Auroville (the City of Dawn) is 8 km. from here.

Porbandar (Gujarat): Mahatma Gandhi's birthplace.

Potsdam (Germany): That is where Churchill, Truman and Stalin met for the conference in 1945

Prayag (U.P.): Some 20 m. Hindu pilgrims gathered here for 'half Kumbh Mela' festival in 1995 - the largest religious crowd.

Prussia (Germany): The most powerful German state in 19th c. It disappeared when Germany was divided after 1945. Frederick William (the Great Elector) and Frederick William III, King of Prussia (1797-1840) were great personalities.

Pune (Maharashtra): Industrial city. The monsoon capital for the British in the 19th c. National Defence Academy, One's International commune and Rajgad Fort are about 10 km. from Pune. It was the capital of Maratha empire in 1720-1817. The Aga Khan palace where Gandhi was imprisoned for two years is to the north of Pune.

Puri (Orissa): A leading pilgrimage centre. Jagannath Temple (12th c.) is a magnificent structure. Its beach is exceptionally beautiful.

Quezon City (Philippines): Named for President Manuel Quezon who selected the site. Capital between 1948 and 1976.

Rajghat (Delhi): Where Mahatma Gandhi, the Father of the Nation is laid to rest.

Rameswaram (Tamil Nadu): Island, holy place. Lord Rama is believed to have worshipped Siva. Pilgrims to Varanasi are expected to visit Rameswaram next. Dhanushkodi, at the tip of the peninsula is considered particularly holy.

Ramoji Film City (A.P.): One of the best equipped film studios in the world.

Rhodesia (Africa): Modern states Zimbabwe and Zambia constitute the old Rhodesia named after Cecil Rhodes.

Riga (Latvia): Capital, seaport, under Germany in WWII.

Rijeka (Croatia): Croatia's largest port, was naval base of Austro-Hungarian empire until 1918. Ceded to Italy in 1924 and to Yugoslavia in 1947.

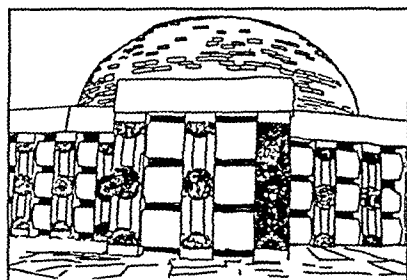
Ripon (UK): Reckoned to be England's second oldest town.

Roanoke Island (USA): Off the coast of North Carolina. Site of the first English colonies in North America.

Rome (Italy): Capital. It was the capital of the Roman empire, which extended to central Europe. Reached the highest point of glory in 1st and 2nd centuries. It once called Holy Roman Empire. The seat of Pope. Vatican City is within Rome.

Salzburg (Austria): Birthplace of Mozart.

Sanchi (M.P.): One of the oldest Buddhist stupa in India.



Sanchi, M.P.

known for the Great Stupa, one of the largest in India.

San Francisco (USA): Californian city. Formerly Yerba Buena, renamed in 1848. Golden Gate Bridge is one of longest single-span suspension bridges. Terminus of the first trans-continental railway (1869).

San Marino (in Italian territory): Small enclave of 61 sq.km. An independent republic.

Sao Paulo (Brazil): Founded in 1554, city in 1711. Brazilian independence was declared here in 1822 by Emperor Pedro I.

Sapporo (Japan): City, ski resort: Hokkaido University here. Site of 1972 Winter Olympics.

Sarajevo (Yugoslavia): WWI had its beginning here when in 1914 the Archduke of Francis Ferdinand of Austria-Hungary was assassinated by a Serb. It was the focal point of civil war after 1992, with refugees coming into Sarajevo. Hosted 1984 Winter Olympics.

Sarnath (U.P.): An important Buddhist centre. The Buddha gave his first sermon here.

Saskatchewan (Canada): Prairies of this province supply two-thirds of Canada's wheat.

Serengeti (Tanzania): National Park (14,500 sq.km) on the southeast shores of Lake Victoria.

Sevastapol (Ukraine): Seaport city. In Crimean War, Anglo-French forces besieged it (Tolstoy's Sevastopol Sketches).

Shah Jahanabad (Delhi): This is Old Delhi (the 7th City) built by Shah Jahan (17th c.).

Shanghai (China): Largest city, seaport, industrial, cultural, educational centre.

Sharpeville: South African township 80km from Jo'burg where 69 peaceful demonstrators protesting the Pass Laws were killed by the police, March 21, 1967. S. Africa new constitution was inaugurated here, 1996.

Sheba (Southern Arabia): Ancient kingdom (Biblical). Covered present day Yemen. Region of great wealth in 6th & 5th c. B.C. Queen of Sheba who visited Solomon the Wise.

Sheffield (UK): City famous for cutlery manufacture.

Shenyang (China): The city was known as Mukden. In 1905, the city fell to the Japanese. In the Mukden (Manchurian) Incident (1931) Japanese used an explosion on the railway as an excuse to occupy the city, and then Manchuria.

Sherwood Forest (UK): The legendary 13th c. outlaw Robin Hood lived in Sherwood Forest in English North Midlands.

Shillong (Meghalaya): Capital, sometime called 'the Scotland of the East'. The home of the matrilineal Khasi tribe. A hill station.

Shimla (H.P.): The summer capital of India from 1864 until independence. It was once part of the Nepali kingdom.

Siberia (Russia-Kazakhstan): Land of rich minerals and extremely cold climate. For long a place of exile for Russian criminals. Trans Siberian Railway (1891-1905) is the longest in the world (9335 km).

Sinai (Egypt): Triangular peninsula between the Suez Canal and the Gulf of Suez. Rich in petroleum and manganese. Has had vital role in Arab Israeli relations. Mount Sinai is important to Jews, Muslims and Christians.

Sitamarhi (Bihar): Commercial centre, site of Bihar's largest cattle fair. Sita (Hindu mythology), wife of Rama, was found near by her father King Janaka.

Sonepat (Haryana): Mentioned in the Mahabharata as Shonaprastha. A leading manufacturer of bicycles.

Sonepur (Bihar): Venue of Asia's largest live stock fair.

Srirangapatna (Karnataka): An island fortress in the Kaveri river. Site of battles between the British and Tipu Sultan. In 1799 Tipu was killed by the British.

Spratly Islands (South China Sea): Strategically important archipelago claimed variously by China, Malaysia, Philippines, Taiwan and Vietnam.

St.Helena (U.K.): In S Atlantic. Island where Napoleon was exiled 1815-21.

St. Louis(USA): HQ of World Agricultural Forum. Associated with the great humorist Mark Twain. Charles Lindberg of his skeletal airplane "The Spirit of St.Louis" from here.

Strasbourg(France): Seat of the Council of Europe. EU's parliament meets here.

Stratford-upon-Avon (UK): William Shakespeare's place of birth, and death.

Stromboli (Italy): A 3038 feet high volcano from which lava flows continuously. It attracts tourists to the island.

Sumer (Ancient Mesopotamia): Site of an old civilisation, dating back to 5th millennium B.C. Sumerians invented cuneiform writing, wheeled vehicles and the plough.

Tawang (Arunachal Pradesh): Tawang monastery, where the sixth Dalai Lama was born, is the second oldest Buddhist monastery in the world after Lhasa, and the largest in India.

Tehran (Iran): Capital. Became capital in 788. Tehran Conference of Roosevelt, Churchill and Stalin to coordinate Allied strategy in WWII (1943).

Tel Aviv-Jaffa (Israel): Tel Aviv was originally a suburb of Jaffa. Towns separated in 1921. When captured by Jewish forces in 1949, almost the entire Arab population fled Jaffa. Reunited Tel Aviv-Jaffa in 1950. UN recognises Tel Aviv as capital.

Tema(Ghana): Port. Africa's largest man-made harbour is here (1968).

Temple Emanu-El (New York): The world's biggest synagogue (3523 sq.m.)

Terre Adelle (Antarctica): It is the only



Bharat Temple, New Delhi

French territory in Antarctica: It has a research station.

Tewkesbury (U.K.): It was at the Battle of Tewkesbury in the Wars of the Roses that the Yorkists finally defeated the Lancastrians.

Texas (USA): Major agricultural region and chief oil and natural gas producer. Dallas, a major commercial and trading centre, and Houston a space centre.

Thanjavur (Tamil Nadu): The capital of three powerful dynasties-Cholas (9th-13th c.), Nayakas (1535-1676), and Marathas (1676-1855). The greatest Chola monument is the Brihadishwara Temple. Culture extends to music and dance.

Thar (S. Asia): Desert known as Great Indian Desert. About 320,000 sq. km. of arid region in north-west India and east Pakistan.

The Hague (The Netherlands): Seat of the Dutch government, Hq of International Court of Justice.

Thermopylae (Greece): A pass in eastern Greece, the scene of Battle of Thermopylae (the Persian Wars), 480 BC-unsuccessful defence by Spartans against the Persians.

Tikal (Guatemala): Ancient Mayan city which was settled in 250 BC. Abandoned by AD 900.

Timbuktu (Mali): A centre of Muslim learning, 1400-1600 a market for slaves and gold, presently salt is its main trading commodity.

Tiruchirappalli (Tamil Nadu): Situated at the head of the Kaveri delta. Srirangam Temple Complex (area: 63.1 ha., perimeter: 1116 m.), world's biggest Hindu temple is here.

hi (A.P.): Site of Shri Venkatesh-wara
the most popular Hindu pilgrim des-
There are 6000 employees to run
mage centre, whose income is about

(Peru-Bolivia border): World's high-
3810 m.

core (Kerala): Former princely state,
of Kerala. After Independence it
with Cochin and later Malabar was
make Kerala.

(N-E India): It is believed to have
n Mahabharata times. Ruled by
of Mongolian origin. Tagore's play
based on Manikya legends.

ur (Rajasthan): Capital of the
State of Udaipur (1568). A walled
Pichola is to the west. A palace
a refuge for Mughal emperor Shah
when he revolted against father

(M.P.): One of Hinduism's seven sa-
s and one of the four centres of the
Mela. Poet Kalidasa wrote some of his
re.

lator (Mongolia): Capital. Centre of
between China and Japan in 17th c.
Mongolia declared independence in
en Ulan Bator became capital.

(Ireland): Historical province. North-
nd partitioned in 1921, six coun-
ed Northern Ireland. Three countries
province of Ulster in the Irish Repub-

la (Sweden): City known as educa-
ntre, with university and cathedral
bs of king Gustavus Vasa.

q) : Ancient city of Sumer. Jewish
Abraham's home.

it (The Netherlands): Treaties of
1713-14 ended the War of Spanish
n.

l (Bihar): It was capital of Licchavi
of ancient times. Mahavira's birth-

Vancouver Island (Canada): The largest off-
shore island on the west coast of North
America. Vancouver is Canada's third largest
city and its chief Pacific port.

Varanasi (U.P.): A major pilgrimage centre
in India. Formerly Benares. Sarnath, where the
Buddha preached first is nearby. Varanasi has
1500 temples.

Vatican City (within Italy): The smallest in-
dependent country in the world. Area is 0.44
sq.km. The Pope is the Head of State.

Vellore (T. Nadu): Important city in 17th-
18th c. Maratha, Muslim and British wars. Fort
is notable. One of India's best hospitals (Chris-
tian Medical College) is here. Vellore Mutiny
of 1806 was an outbreak against the British
by South Indian troops.

Venice (Italy): City, Port. Capital of Venetia
and of Venezia. Built on 118 islands, with 170
canals, 400 bridges. It was a rich medieval
maritime republic founded in 5th c. Venetian
Republic in 15th c. Territories lost to Turks,
republic fell to Austria. Excellent centre for art
and architecture (the Byzantine cathedral of
St.Mark).

Versailles (France): Venue of the peace
treaty signed in 1919 between Germany and
Allied powers. Versailles war.

Vicksburg (USA): On the Mississippi. The
site of a siege in American Civil War that ended
in the Confederate surrender, 1863.

Victoria Peak (Hong Kong): The principal
peak on Hong Kong Island, named after
Queen Victoria.

Vienna (Austria): Capital. It was the seat of
the Habsburgs (1278-1918) and the residence
of the Holy Roman emperors (1558-1806). A
cultural centre in 18th and 19th c. with asso-
ciations with composers like Haydon, Mozart,
Beethoven, Schubert and the Strauss family.
Vienna was jointly occupied by the Allied Pow-
ers 1945-55. The conference of European
powers after the fall of Napoleon in 1814-15
is known as the Congress of Vienna.

Vijayanagar (S. India): Empire in southern

India in the 14th century. The city of Vijayanagar was destroyed by Muslims who defeated Vijayanagar at the Battle of Talikota, 1565.

Vinson Massi (Antarctica): A mountain peak. One of the Ellsworth Mountains. At 5139 m., it is the continent's highest point.

Visakhapatnam (A.P.): Largest shipyard in India, second busiest port after Mumbai. Once part of Ashoka's empire.

Waco (USA): Headquarters of David Koresh's Branch Davidian religious cult. An FBI storming after a 51-day siege killed Koresh and 70 followers, in April 1993.

Wallonia (Belgium): The French-speaking region of southern Belgium.

Wall Street (USA): Street in Manhattan, N.Y. City, where the New York Stock Exchange is located.

Warangal (A.P.): Ancient capital of the Kakatiyas, a dynasty of 12th c.

Wardha (Maharashtra): Town at 8 km from Sevagram. Gandhiji lived here for 15 years. Hq. of India's national movement.

Warsaw (Poland): Capital. It was occupied by Germany in both World Wars.

Washington D.C. (USA): Capital of USA, on the east bank of the Potomac river covering the District of Columbia.

Waterloo (Belgium): Where the Battle of Waterloo, the final defeat of Napoleon, took place in 1815.

Watergate (Hotel complex in Washington): Known for Watergate affair, the US political scandal that ended in President Nixon's resignation. The attempted burglary took place in Democratic Party hq. in Watergate building.

West Bank: Palestinian territory west of the River Jordan. Jordan claimed it from 1949 to 1988. Israel has occupied it since 1967. Israeli troops withdrew in 1993.

Westminster Abbey (London, UK): The burial place of 18 monarchs. Its Poet's corner is here.

White House (USA): Official residence of US President in Washington, D.C.

Wimbledon (U.K.): A suburb of London, at All England Club, and foremost championship on grass - All England Lawn Tennis Championship is played.

Windsor Castle (UK): British royal residence in southern England. The complex includes the burial place of 10 monarchs.

Winnipeg (Canada): The major city of the Canadian prairies, it has one of the world's largest wheat markets.

Wittenberg (Germany): Associated with the beginning of the Reformation, 1517. Martin Luther nailed his 95 theses to the doors of Schlosskirche.

Woodstock (England): Town with a palace where Elizabeth I was imprisoned by Mary I in 1554.

Woodstock (New York): Town that was site of a famous rock music festival in 1969.

Worcester (UK): Country town on river Severn which was the site of Cromwell's defeat of Charles II and the Scots in 1651.

Yale (USA): One of the oldest American universities, founded in 1701 as a college. Named in 1716 after Elihu Yale who donated his books to the college.

Yalta (Ukraine): Port on the Black Sea. Crimean resort, the site of Yalta Conference (1945) attended by Roosevelt, Stalin and Churchill.

Ypres (Belgium): Known for the battles of WWI fought around Ypres, in 1914, in 1915, in 1917.

Yumen (Tibet): The least populous town. Three residents. The town has a township Government.

Zagreb (Croatia): Capital. It has a Gothic cathedral and a university founded in 1669.

Zanzibar (Africa): Island in the Indian Ocean, part of Tanzania. World's largest producer of cloves.

Zaragoza (Spain): See Saragossa. Fought against the French in 1808.

History of Man

ings in China against Europe-
to I of Italy murdered by
Commonwealth of Australia cre-
formulates quantum theory.
Party founded.

Victoria dies; succeeded by her
; Rabindranath Tagore founds
an school; Oil drilling begins in

6. acquires perpetual control over
nal; Aswan Dam opened.
the Russian Social Democratic Party
Mensheviks and Bolsheviks; Orville
Wright successfully fly a powered
Henry Ford, with capital of \$100,000,
the Ford Motor Company.

4 Russo-Japanese War; Church and state
ted in France; Rolls-Royce Company
ed; First telegraphic transmission of pho-
phs;

1905 Port Arthur surrenders to Japanese;
monstration in St. Petersburg brutally crushed
police ("Bloody Sunday"); First partition of
ngal.

1906 U.S. troops occupy Cuba (-1909);
heodore Roo-sevelt, on first trip outside U.S.
by a president in office.

1907 Panic of 1907 causes run on banks,
stopped by J.P. Morgan's importation of \$100
million in gold from Europe; Ross Harrison
develops tissue culture techniques; Baden-
Powell founds Boy Scout movement. Triple
Entente.

1908 Union of South Africa established;
Earthquake in southern Calabria and Sicily,
150,000 killed; General Motors Corporation
formed.

1909 U.S. explorer Robert E. Peary reaches

the North Pole; Girl Guides established in Brit-
ain.

1910 Union of South Africa becomes a do-
minion within the British Empire with Botha as
premier; Japan annexes Korea; Revolution in
Portugal.

1911 Chinese Republic proclaimed;
Manchu dynasty falls (in power since 1644;
Sun Yat-sen elected president; Roald Amund-
reaches the South Pole; Rutherford's ato-
theory; Delhi made capital of India.

1912 Sun Yat-sen fo-unds Kuomintang (Chi-
nese National Party); Titanic sinks on her maiden
voyage after colliding with an iceberg; 1,513
drowned.

1914 World War 1 begins; U.S. Court de-
cides patent suit on airplanes in favor of Wright
brothers against Glenn Curtiss; Panama Canal
opened.

1915 Albert Einstein postulates his General
Theory of Relativity; First transcontinental tele-
phone call between Alexander Graham Bell in
New York and Dr. Thomas A. Watson in San
Francisco. Gandhiji returns to India.

1917 October Revolution in Petrograd; The
Allies execute dancer Mata Hari as a spy; U.S.
Government purchases Dutch West Indies.

1918 Woodrow Wilson propounds Fou-
teen Points for world peace; End of first Wor-
War; Women over 30 get the vote in Brita
World-wide influenza epidemic, 22 million de-

1919 President Wilson presides over
League of Nations meeting in Paris; Benito
Mussolini founds Fascist party; Afghanistan fully
independnet. Treaty of Versailles.

1920 League of Nations comes into being;
Earthquake in China claims 200,000 victims;
End of Russian Civil War; Khilafat movement.

1921 Takashi Hara, Premier of Japan, assassinated. Breakaway Chinese government under Sun Yat-Sen.

1922 Mussolini forms Fascist government; John Harwood invents a self-winding wrist-watch; Mustapha Kemal proclaims Turkey a republic; Soviet States form U.S.S.R.; Ulysses published.

1923 Centres of Tokyo and Yokohama destroyed by earthquake, 120,000 dead; Ankara replaces Istanbul as capital of Turkey.

1924 First elections in Italy under Fascist methods; 65 per cent favor Mussolini; Insecticides used for the first time.

1925 Hitler reorganises Nazi Party (27,000 members) and publishes vol. 1 of "Mein Kampf"; Scottish inventor John Logie Baird (1888-1946) transmits recognisable human features by television.

1926 General strike called in Britain; Republic of Lebanon proclaimed; Kodak produces the first 16 mm movie film.

1927 "Black Friday" in Germany - the economic system collapses; I. P. Pavlov: "Conditioned Reflexes"; Broadcasting begins in India.

1928 J. L. Baird demonstrates color T.V.; Alexander Fleming (1881-1954) discovers penicillin; Indian physicist C.V. Raman discovers the Raman effect; Brazil's economy collapses owing to over-production of coffee; First color motion pictures exhibited by George Eastman.

1929 U.S. Stock Exchange collapses; World economic crisis begins; Lateran Treaty establishes independent Vatican City; Round Table Conference between Viceroy and Indian leaders. E. Hubble discovers the universe is expanding.

1930 Name of Constantinople changed to Istanbul; Planet Pluto discovered.

1931 Empire State Building of New York is completed.

1932 Franklin D. Roosevelt wins U.S. presidential election in Democratic landslide; James Chadwick discovers the neutron. Sand Arabic established.

1933 Adolf Hitler appointed German Chan-

cellor; The first concentration camps erected by the Nazis in Germany.

1934 Hitler and Mussolini meet in Venice. Long march by Chinese Communists.

1935 Radar equipment to detect aircraft built by Robert Watson Watt; Persia changes its name to Iran. Ethiopia occupied by Italy.

1936 Mussolini and Hitler proclaim Rome-Berlin Axis; Anti-Comintern Pact signed by Germany and Japan; Ford Foundation established.

1937 Japanese seize Peiping, Tientsin, Shanghai, Nanking and Hangchow; Chiang Kai-shek unites with Communists, led by Mao Tse-tung and Chou En-lai; The first jet engine built by Frank Whittle; Picasso paints Guernica.

1938 Japanese enter Tsingtao, install Chinese puppet government in Nanking. Lajos Biro (Hungary) invents ballpoint pen. German people's car Volks-wagen made.

1939 World War II begins: Germany invades Poland and annexes Danzig; Britain and France declare war on Germany; Paul Muller synthesises DDT; Igor Sikorsky constructs first helicopter

1940 Germans invade Russia; Japanese bomb Pearl Harbor; Germany and Italy declare war on U.S.; U.S. declares war on Germany and Italy; Donald Bailey invents the portable military bridge; Germany begins exterminating Jews.

1941 WW II reaches N. Africa; Ethiopia isolated by Florey and Chaim. Citizen Kane released.

1942 Japanese capture Singapore and Rangoon; Americans defeat Japanese. The first automatic computer developed in the U.S. Millions of Jews are in Nazi gas chambers, Quit India Movement.

1943 Mussolini dismissed. Allies in Africa; Churchill, Stalin and Roosevelt hold Tehran conference.

1944 D-Day landings in Normandy; first flying-bomb (on London 1944) Minh is Vietnam

1945 Yalta Conference; Mussolini killed by Italian partisans; Hitler commits suicide; U.S. drops atomic bombs on Hiroshima (Aug. 6) and Nagasaki (Aug. 9); Japan surrenders; End of World War II; UN formed; IBRD ("World Bank") founded; Shimla Conference.

1946 UN General Assembly holds its first session in London; Albania, Hungary and Bulgaria become independent states; Xerography process invented by Chester Carlson.

1947 India and Pakistan proclaimed independent; The Dead Sea Scrolls, dating from approx. 22 B.C. to A.D. 100, are discovered; Supersonic Bell X1 plane breaks the sound barrier.

1948 Mahatma Gandhi assassinated (b. 1869); U.S. parliament passes Marshall Plan Act for the reconstruction of post war Europe; The Jewish state of Israel comes into existence; Integration of Indian princely states.

1949 Communist People's Republic of China proclaimed under Mao Tse-tung. North Atlantic Treaty signed in Washington; German Federal Republic and Democratic Republic of East Germany established.

1950 India becomes a Republic; N. Korean forces invade S. Korea and capture Seoul; UN forces land in S. Korea and recapture Seoul.

1951 King Abdullah of Jordan assassinated in Jerusalem; Colour television is introduced in U.S.

1952 King George VI of England dies; succeeded by his daughter, Queen Elizabeth II.

1953 U.S.S.R. explodes hydrogen bomb; Edmund Hillary and Tenzing become the first to climb Mount Everest.

1954 Nasser seizes power in Egypt; becomes premier and head of state; Southeast Asia Treaty Organization (SEATO) established; U.S. tests hydrogen bomb.

1955 Italy, W. Germany and France establish European Union; The Vienna Treaty restores Austria's independence.

1956 Sudan proclaimed independent republic; Pakistan becomes Islamic republic; Egypt seizes Suez Canal; Nehru-Tito-Nasser confer-

ence in Yugoslavia; Oral vaccine developed by Albert Sabin against polio.

1957 UN reopens Suez Canal; U.S.S.R. launches Sputnik I and II, first earth satellites.

1958 Egypt and Sudan join to form the United Arab Republic with Nasser as president; NASA established.

1959 Fidel Castro becomes Premier of Cuba; De Gaulle proclaimed President of the Fifth Republic in France; Bandaranaike, President of Ceylon, assassinated; Dalai Lama leaves Tibet.

1960 Brezhnev becomes President of the USSR; Cyprus becomes independent republic; John F. Kennedy elected U.S. President.

1961 Berlin Wall built.

1962 Cuban missile crisis; Marilyn Monroe dies.

1963 U.S. and U.S.S.R. agree on "hot line" from White House to the Kremlin; Nuclear test ban signed by U.S., U.S.S.R., and Great Britain; First woman in space - Valentina Tereshkova; President John F. Kennedy assassinated.

1964 Kenneth Kaunda becomes President Zambia; Kenya becomes republic.

1965 Winston Churchill dies (b. 1874); Gambia becomes independent.

1966 Indian PM Lal Bahadur Shastri dies; Indira Gandhi becomes P M; Soviet spacecraft Luna 9 and U.S. spacecraft Surveyor I make soft landing on moon and transmits thousands of images of the terrain;

1967 Hanoi attacked by U.S. bombers; Six-Day War between Israel and Arab nations begins; China explodes its first hydrogen bomb; Dr. Christian N. Barnard performs the world's first human heart transplant.

1968 Mauritius becomes independent; Martin Luther King, Jr. is assassinated; Aswan Dam completed.

1969 The Concorde, supersonic aircraft makes its first test flight; Neil Armstrong steps out on the moon.

1970 Venera 7, unmanned Soviet spacecraft, lands on Venus; Assassination attempt on

Pope Paul VI in the Philippines; Cyclones and floods kill 500,000 in Pakistan.

1971 Fighting in Indochina spreads to Laos and Cambodia; U.S. conducts large-scale bombing raids against N. Vietnam; Idi Amin establishes himself as Ugandan strongman.

1972 Bangladesh established as sovereign state; Sheik Mujibur Rahman named Prime Minister; "Watergate" scandal in USA.

1973 Great Britain, Ireland and Denmark formally join the Common Market; Fighting breaks out in the Middle East between Arabs and Israelis.

1974 India becomes the sixth nation to explode a nuclear device; Great Britain, France and China conduct nuclear tests; Watergate impeachment, Nixon resigns.

1975 PM Sheikh Mujibur Rahman of Bangladesh assassinated; South Vietnam surrenders to the North Vietnamese Communists; Mrs. Junko Tabei, becomes the first woman to climb Mount Everest.

1976 The death of Zhou Enlai and Mao Zedong; A bloodless military coup deposes president Isabel Peron of Argentina; North and South Vietnam reunited.

1977 Violent student riots in Italy; Morarji Desai replaces Indira Gandhi as first non-Congress prime minister of India; In Pakistan, Gen. Zia ul-Huq ousts prime minister Bhutto; The neutron bomb is developed.

1978 A Revolutionary Council seizes power and establishes a new government based on Islamic principles in Afghanistan; Death of Pope Paul VI, Albino Luciani succeeded him as John Paul, he also dies and Cardinal Karol Wojtyla of Poland (first non-Italian Pope since 1523) succeeds; Camp David agreement.

1979 Vietnamese troops and Cambodian rebels capture Phnom Penh and overthrow the Pol Pot regime; China invades Vietnam; Egyptian President Sadat and Israel PM Begin sign a peace treaty; Zulfikar Ali Bhutto is executed.

1980 Vietnam invades Thailand by way of

Cambodia; War breaks out in the Persian Gulf as Iraq invades Iran.

1981 President Ziaur Rahman of Bangladesh is shot dead; President Anwar Sadat of Egypt is assassinated; AIDS is officially recognized for the first time in USA.

1982 In Bangladesh a military coup by Lt. Gen. Ershad; The Vatican and UK reestablish diplomatic relations; Introduction of the supercomputer Cray I.

1983 Benigno Aquino of Philippines assassinated; President Reagan announces the "Star Wars" programme.

1984 Indian PM Indira Gandhi is assassinated, succeeded by son Rajiv Gandhi, Bhopal gas tragedy.

1985 Death of Soviet premier Chernenko, Mikhail Gorbachev succeeds him; Salvage experts locate the wreck of the ship Titanic.

1986 Swedish PM Olof Palme is assassinated; Chernobyl nuclear disaster; Mikhail Gorbachev institutes his policy of Glasnost.

1987 In Czechoslovakia far-reaching political and economic reforms; Worldwide stock exchange crash; Glass fiber cable is laid across the Atlantic Ocean.

1988 Pakistani Premier Gen. Zia killed in a plane crash, succeeded by the first woman leader of a Muslim country, Benazir Bhutto; Mikhail Gorbachev appointed president of USSR.

1989 In China 3,000 students begin a hunger strike in Tiananmen Square in Beijing which was brutally crushed by the Govt. The down wall is opened. Dictator Nicolae Ceausescu's brutal regime is overthrown in Romania, he is captured and executed.

1990 Armenia, Lithuania and Latvia declare independence from USSR; Iraq invades Kuwait. Benazir Bhutto is elected by Pakistan president Gulam Ishaq Khan; German reunification. The Cold War officially ends as 22 heads of state of the NATO and Warsaw Pact countries sign a treaty which drastically reduces conventional weapons. Nelson Mandela.

Important Days

January 9	NRI Day
January	10 World Laughter Day
January	12 National Youth Day
January	15 Army Day
January	26 India's Republic Day, International Customs Day
January	30 Martyrs' Day; World Leprosy Eradication Day
1st Sunday of February	World Marriage Day
February 24	Central Excise Day
February 28	National Science Day
2nd Monday March	Commonwealth Day
March 8	International Women's Day
March 15	World Disabled Day; World Consumer Rights Day
March 18	Ordnance Factories Day (India)
March 21	World Forestry Day
March 21	International Day for the Elimination of Racial Discrimination
March 22	World Day for Water
March 23	World Meteorological Day
March 24	World TB Day
April 5	International Day for Mine Awareness; National Maritime Day
April 7	World Health Day
April 17	World Haemophilia Day
April 18	World Heritage Day
April 21	Secretaries' Day
April 22	Earth Day
April 23	World Book and Copyright Day
May 1	Workers' Day (International Labour Day)
1st Tuesday of May	World Asthma Day
May 3	Press Freedom Day; World Asthma Day
May 2nd Sunday	Mother's Day
May 4	Coal Miners' Day
May 8	World Red Cross Day
May 9	World Thalassaemia Day
May 11	National Technology Day
May 12	World Hypertension Day; International Nurses Day
May 15	International Day of the Family
May 17	World Telecommunication Day

May 24	Commonwealth Day
May 31	Anti-Tobacco Day
June 4	International Day of Innocent Children, Victims of Aggression
June 5	World Environment Day
June 3rd	Sunday: Father's Day
June 26	International Day against Drug Abuse and Illicit Trafficking
June 14	World Blood Donor Day
July 1	Doctors' Day
July 11	World Population Day
August 3	International Friendship Day
August 6	Hiroshima Day
August 8	World Senior Citizen's Day
August 9	Quit India Day, Nagasaki Day
August 15	Indian Independence Day
August 18	Intl. Day of the World's Indigenous Peoples
August 19	Photography Day
August 29	National Sports Day
September 2	Coconut Day
September 5	Teachers' Day; Sanskrit Day
September 8	International Literacy Day (UNESCO)
September 15	Engineers' Day
September 16	World Ozone Day
September 21	Alzheimer's Day; Day for Peace & Non-violence (UN)
September 22	Rose Day (Welfare of cancer patients)
September 26	Day of the Dead
September 27	World Tourism Day
October 1	International Day for the Elderly
October 2	Gandhi Jayanti
October 3	World Habitat Day
October 4	World Animal Welfare Day
October 8	Indian Air Force Day
October 9	World Post Office Day
October 10	National Post Day
October 2nd Thursday	World Sight Day
October 13	UN International Day for Natural Disaster Reduction
October 15	World White Cane Day (guiding the blind)
October 16	World Food Day
October 24	UN Day; World Development Information Day
October 30	World Throat Day
November 9	Legal Services Day
November 14	Children's Day; Diabetes Day
November 17	National Epilepsy Day
November 20	Constitution Day
November 29	International Day of Solidarity

December 1	World AIDS Day
December 3	World Day of the Handicapped
December 4	Navy Day
December 7	Armed Forces Flag Day
December 10	Human Rights Day; Intl. Children's Day of Broadcasting
December 18	Minorities Rights Day (India)
December 23	Kisan Divas (Farmer's Day)

UN Peacekeeping Operations

Region/Country	Duration
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Africa

Congo	July 1960 - June 1964
Angola	Dec. 1988 - May 1991
Namibia	Apr. 1989 - Mar 1990
Angola	May 1991 - Feb 11995
Somalia	Apr 1992 - Mar 1993
Mozambique	Dec. 1992 - Dec. 1994
Somalia	Mar 1993 - Mar 1995
Rwanda / Uganda	June 1993 - Sept. 1994
Liberia	Sept. 1993 - Sept 1997
Rwanda	Oct. 1993 - Mar 1996
Chad/Libya	May - June 1994
Angola	Feb 1995 - June 1997
Angola	June 1997 - Feb 1999
Sierra Leone	July 1998 - Oct. 1999
C. African Republic	Apr 1998 - Feb 2000

Mideast

Middle East- 1st UN Emergency Force	Nov. 1956 - June 1967
Lebanon	June-Dec. 1958
Yemen	July 1963 - Sept 1964
Middle East- 1st UN Emergency Force	Oct 1973- July 1979
Iran/Iraq	Aug. 1988 - Feb. 1991

America

Dominican Rep.	May 1965 - Oct. 1966
Central America Observer Group	Nov 1989 - Jan 1992
El Salvador	July 1991 - Apr 1995
Haiti	Sept 1993-June 1996
Haiti	July 1996 - July 1997
Guatemala	Jan - May 1997
Haiti	Aug - Nov. 1997
Haiti	Dec. 1997 - Mar. 2000

Asia

West New Guinea	Oct. 1962 - Apr. 1963
India / Pakistan	Sept 1965-Mar 1966
Afghanistan/Pakistan	May 1988 - Mar 1990
Cambodia	Oct. 1991 - Mar 1992
Cambodia	Mar 1992 - Sept 1993
Tajikistan	Dec. 1994 - May 2000
East Timor	Oct. 1999 - May 2002

Europe

Former Yugoslavia	Feb. 1992-Mar. 1995
Croatia	Mar 1995- Jan. 1996
Former Yugoslavia Rep. of Macedonia	Mar. 1995 - Feb. 1999
Bosnia & Herzegovina	Dec. 1995-Dec. 2002
Croatia	Jan 1996 - Jan 1998
Croatia	Jan 1998 - Oct. 1998

.....	1974-1977
.....	Feb.-July, 1977 (Acting)
.....	1977-1982
.....	1982-1987
.....	1987-1992
.....	1992-1997
.....	1997-2002
.....	From July 25, 2002

Vice-Presidents

.....	1952-1962
.....	1962-1967
.....	1967-1969
.....	1969-1974
.....	1974-1979
.....	1979-1984
.....	1984-1987
.....	1987-1992
.....	1992-1997
.....	1997-2002
.....	From Aug. 19, 2002

Prime Ministers

.....	1947-1964
.....	May-June, 1964 (Acting)
.....	1964-1966
.....	11-24, Jan., 1966 (Acting)
.....	1966-1977
.....	1977-1979
.....	1979-1980
.....	1980-1984
.....	1984-1989
.....	1989-1990
.....	1990-1991
.....	1991-1996
.....	16.5.1996-28.5.1996
.....	1.6.1996-21.4.1997
.....	21.4.1997- 18.3.1998
.....	19.3. 1998 -13.10.1999
.....	13.10.1999- May 2004
.....	From May 22, 2004

Speakers of the Lok Sabha

.....	1952-1956
.....	1956-1962
Ganesh Vasudeo Mavlankar	
M. Ananthasayanam Ayengar	

Harilal Hukum Singh	1962-1967
Neelam Sanjiva Reddy	1967-1969
Guruthayal Singh Dhillon	1969-1975
Yashwantrao Chavan	1976-1977
Neelam Sanjiva Reddy	Mar-July, 1977
Kawdoor Sadananda Hegde	1977-1979
Balram Jakhar	1980-1989
Rabi Ray	1989-1991
Shivraj Patil	1991-1996
P.A. Sangma	1996-1998
G.M.C. Balayogi	1998-2002
Manohar Joshi	2002 - 2004
Somnath Chatterjee	From June 4, 2004

Chief Justices

Harilal J. Kania	1950-1951
M. Patanjali Sastri	1951-1954
Mehar Chand Mahajan	1954-1954
B. K. Mukherjee	1954-1956
S. R. Das	1956-1959
Bhuvaneshwar Prasad Sinha	1959-1964
P. B. Gajendragadkar	1964-1966
A. K. Sarkar	Mar-June, 1966
K. Subba Rao	1966-1967
K. N. Wanchoo	1967-1968
M. Hidayatullah	1968-1970
J. C. Shah	1970-1971
S. M. Sikri	1971-1973
A. N. Ray	1973-1977
M. H. Baig	1977-1978
Y. V. Chandrachud	1978-1985
P. N. Bhagwati	1985-1986
R. S. Pathak	1986-1988
E. S. Venkataramiah	June-Dec, 1988
Sabyasachi Mukherjee	1988-1990
Ranganath Mishra	1990-1991
K.N. Singh	1991-1992
M. H. Kania	Nov 1992-Feb 1993
Lalit Mohan Sharma	Feb. 1993-Mar 1994
Manepalli Narayanrao Venkatachalliah	1994-1997
Aziz Mushabber Ahmed	1997-1998
Jagdish Sharan Verma	Jan-Mar, 1998
M.M. Punchhi	1998-2000
Adarsh Sein Anand	2000-2001
S.P. Bharucha	2001-2002

May-Nov., 2002
 Nov.-Dec., 2002
 Dec. 2002-May 2004
 May 2, 2004 - June 1, 2004
 June 1, 2004 - Oct. 31, 2005
 From Nov.1, 2005

Chief Election Commissioners

1950-1958
 1958-1967
 1967-1972
 1972-1973
 1973-1977
 1977-1982
 1982-1985
 1985-1991
 15.11.90-12.12.9-
 1990-1996
 1996-mid 2001
 2001-2004
 2004-05
 2005-06
 From 30.06.2006

Chief of Army Staff

Apr.-May, 1951
 1955-1957
 1957-1961
 1961-1962
 1962-1966
 1966-1969
 1969-1972
 Jan.01.73- Jan.14.73
 1973-1975
 1975-1978
 1978-1981
 1981-198
 1983-1986
 1986-1988
 1988-1990
 1990-1993
 1993-1994
 1994-1997
 1997-2000
 2000-2002

Maharaj Rajendra Sinhji
 S. M. Srinagesh
 K. S. Thimayya
 R. N. Thapar
 J. N. Chaudhuri
 P. P. Kumaramangalam
 S. H. F. J. Manekshaw
 Marshal S. H. F. J. Manekshaw
 G. G. Bewoor
 T. N. Raina
 O. P. Malhotra
 K. V. Krishna Rao
 A. S. Vaidya
 K. Sundarjee
 V. N. Sharma
 S. F. Rodrigues
 Bipin Chandra Joshi
 Shankar Roy Chowdhury
 Ved Prakash Malik
 Sundarrajan Padmanabhan

General Nirmal Chander Vij	2002-2005
General J.J. Singh	From 31-1-2005
(General Sir Roy Bucher (1948-49), General K. M. Cariappa (1949-53) and General Maharaj Rajendra Singhji (1953-55) served as commanders-in-chief of Indian Army. General Kariappa was conferred the rank of Field Marshal in 1986).	

Chiefs of Naval Staff

Vice-Admiral R. D. Katari	1958-1962
Vice-Admiral B. S. Soman	1962-1966
Admiral A. K. Chatterjee	1966-1970
Admiral S. M. Nanda	1970-1973
Admiral S. N. Kohli	1973-1976
Admiral J. L. Cursetji	1976-1979
Admiral R. L. Pereira	1979-1982
Admiral O. S. Dawson	1982-1984
Admiral R. H. Tahiliani	1984-1987
Admiral J. G. Nadkarni	1987-1990
Admiral L. Ramdas	1990-1993
Admiral Vijay Singh Shekawat	1993-1996
Admiral Vishnu Bhagwat	1996-1998
Admiral Sushil Kumar	1999-2001
Admiral Madhvendra Singh	2001-2004
Admiral Arun Prakash	2004-06
Admiral Sureesh Mehta	From 31.10.2006

Chiefs of Air Staff

Air Marshal Sir Thomas Emhirst	1947-1950
Air Marshal Sir Ronald Lvelaw Chapnam	1950-1951
Air Marshal Sir Gerald Gibbs	1951-1954
Air Marshal S. Mukherjee	1954-1960
Air Marshal A. M. Engineer	1960-1964
Air Chief Marshal Arjan Singh	1964-1969
Air Chief Marshal P. C. Lal	1969-1973
Air Chief Marshal O. P. Mehra	1973-1976
Air Chief Marshal H. Moolgavkar	1976-1978
Air Chief Marshal I. H. Latif	1978-1981
Air Chief Marshal Dilbagh Singh	1981-1984
Air Chief Marshal L. K. Katre	1984-1985
Air Chief Marshal D. A. La Fontaine	1985-1988
Air Chief Marshal S. K. Mehra	1988-1991
Air Chief Marshal N.C. Suri	1991-1993
Air Chief Marshal Swarup Krishan Kaul	1993-1995
Air Chief Marshal Satish Kumar Sareen	1995-1998
Air Chief Marshal A.Y. Tipnis	1999-2001
Air Chief Marshal S. Krishnaswamy	2001-2004
Air Chief Marshal S.P. Tyagi	From 31-12-2004

Council of Ministers, India (as on 25.10.2006)

Cabinet Ministers

- Dr. Manmohan Singh
Prime Minister and also in-charge of the Ministries/ Departments not specifically allocated to the charge of any Minister viz.:
- (i) Ministry of Personnel, Public Grievances & Pensions;
 - (ii) Ministry of Planning;
 - (iii) Department of Atomic Energy;
 - (iv) Department of Space;
 - (v) Ministry of External Affairs; and
 - (vi) Ministry of Labour & Employment.
1. Shri Pranab Mukherjee: Minister of External Affairs.
 2. Shri A.K. Antony: Minister of Defence.
 3. Shri Arjun Singh : Minister of Human Resource Development.
 4. Shri Sharad Pawar: Minister of Agriculture and Minister of Consumer Affairs, Food & Public Distribution.
 5. Shri Lalu Prasad: Minister of Railways.
 6. Shri Shivraj V. Patil: Minister of Home Affairs.
 7. Shri A.R. Antulay: Minister of Minority Affairs.
 8. Shri Sushilkumar Shinde: Minister of Power
 9. Shri Ram Vilas Paswan: Minister of Chemicals & Fertilizers and Minister of Steel.
 10. Shri S. Jaipal Reddy: Minister of Urban Development.
 11. Shri Sis Ram Ola: Minister of Mines.
 12. Shri P. Chidambaram: Minister of Finance.
 13. Shri Mahavir Prasad: Minister of Small Scale Industries and Minister of Agro & Rural Industries.
 14. Shri P.R. Kyndiah: Minister of Tribal Affairs.
 15. Shri T.R. Baalu: Minister of Shipping, Road Transport & Highways.
 16. Shri Shankersinh Vaghela: Minister of Textiles.
 17. Shri Vayalar Ravi: Minister of Overseas Indian Affairs.
 18. Shri Kamal Nath: Minister of Commerce & Industry.
 19. Shri H.R. Bhardwaj: Minister of Law & Justice.
 20. Shri Sontosh Mohan Dev: Minister of Heavy Industries & Public Enterprises.
 21. Prof. Saif-ud-din Soz: Minister of Water Resources.
 22. Shri Raghuvansh Prasad Singh: Minister of Rural Development.
 23. Shri Priyaranjan Dasmunsi: Minister of Parliamentary Affairs and Minister of Information & Broadcasting.
 24. Shri Mani Shankar Aiyar: Minister of Panchayati Raj and Minister of Youth Affairs & Sports and Minister of Development of Northeastern Region.
 25. Smt. Meira Kumar: Minister of Social Justice & Empowerment.
 26. Shri Murli Deora: Minister of Petroleum & Natural Gas.
 27. Smt. Ambika Soni: Minister of Tourism and Minister of Culture.
 28. Shri Shibu Soren: Minister of Coal.
 29. Shri A. Raja: Minister of Environment & Forests.
 30. Shri Dayanidhi Maran: Minister of Communications & Information Technology.
 31. Dr. Anbumani Ramdoss: Minister of Health & Family Welfare.
 32. Shri Kapil Sibal: Minister of Science & Technology and Minister of Earth Sciences.
 33. Shri Prem Chand Gupta: Minister of Company Affairs.

Ministers of State (Independent Charge)

1. Shri Oscar Fernandes: Minister of State (Independent Charge) of the Ministry of Labour.
2. Smt. Renuka Chowdhury: Minister of State (Independent Charge) of the Ministry of Women & Child Development.
3. Shri Subodh Kant Sahay: Minister of State (Independent Charge) of the Ministry of Food Processing Industries.
4. Shri Vilas Muttemwar: Minister of State (Independent Charge) of the Ministry of Non-Conventional Energy Sources.
5. Kumari Selja: Minister of State (Independent Charge) of the Ministry of Housing and Urban Poverty Alleviation.
6. Shri Praful Patel: Minister of State (Independent Charge) of the Ministry of Civil Aviation.
7. Shri G.K. Vasan: Minister of State (Independent Charge) of the Minister of Statistics & Programme Implementation.

the Ministry of Shipping, Road Transport & Highways.

10. Shri M.V. Rajasekharan: Minister of State in the Ministry of Planning.
11. Shri Kantilal Bhuria: Minister of State in the Ministry of Agriculture and Minister of State in the Ministry of Consumer Affairs, Food & Public Distribution.
12. Shri Manikrao Gavit: Minister of State in the Ministry of Home Affairs.
13. Shri Shriprakash Jaiswal: Minister of State in the Ministry of Home Affairs.
14. Shri Prithviraj Chavan: Minister of State in the Prime Minister's Office.
15. Shri Taslimuddin: Minister of State in the Ministry of Agriculture and Minister of State in the Ministry of Consumer Affairs, Food & Public Distribution.
16. Smt. Suryakanta Patil: Minister of State in the Ministry of Rural Development and Minister of State in the Ministry of Parliamentary Affairs.
17. Shri Md. Ali Ashraf Fatmi: Minister of State in the Ministry of Human Resource Development.
18. Shri R. Velu: Minister of State in the Ministry of Railways.
19. Shri S.S. Palaniamanickam: Minister of State in the Ministry of Finance.
20. Shri S. Regupathy: Minister of State in the Ministry of Home Affairs.
21. Shri K. Venkatapathy: Minister of State in the Ministry of Law & Justice.

Ministers of State

1. Shri E. Ahammed: Minister of State in the Ministry of External Affairs.
2. Shri Suresh Pachouri: Minister of State in the Ministry of Personnel, Public Grievances & Pensions and Minister of State in the Ministry of Parliamentary Affairs.
3. Shri B.K. Handique: Minister of State in the Ministry of Chemicals & Fertilizers and Minister of State in the Ministry of Parliamentary Affairs.
4. Smt. Panabaka Lakshmi: Minister of State in the Ministry of Health & Family Welfare.
5. Dr. Dasari Narayan Rao: Minister of State in the Ministry of Coal.
6. Dr. Shakeel Ahmad: Minister of State in the Ministry of Communications & Information Technology.
7. Shri Rao Inderjit Singh: Minister of State in the Ministry of Defence.
8. Shri Naranbhai Rathwa: Minister of State in the Ministry of Railways.
9. Shri K.H. Muniappa: Minister of State in

Deputy PMs since 1947

Name	Year
Sardar Patel	1947-50
Morarji Desai	1967-69
Charan Singh and Jagjivan Ram (jointly)	1979
Yashwantrao Chavan	1979-80
Devi Lal	1989-90

22. Smt. Subbulakshmi Jagadeesan: Minister of State in the Ministry of Social Justice & Empowerment.
23. Shri E.V.K.S. Elangovan: Minister of State in the Ministry of Textiles.
24. Smt Kanti Singh: Minister of State in the Department of Heavy Industry, Ministry of Heavy Industries & Public Enterprises.
25. Shri Namo Narain Meena: Minister of State in the Ministry of Environment & Forests.
26. Dr. Akhilesh Prasad Singh: Minister of State in the Ministry of Agriculture and Minister of State in the Ministry of Consumer Affairs, Food & Public Distribution.
27. Shri Pawan Kumar Bansal: Minister of State in the Ministry of Finance.
28. Shri Anand Sharma: Minister of State in the Ministry of External Affairs.
29. Shri Ajay Maken: Minister of State in the Ministry of Urban Development.
30. Shri Dinsha J. Patel: Minister of State in the Ministry of Petroleum & Natural Gas.
31. Shri M.M. Pallam Raju: Minister of State in the Ministry of Defence.
32. Dr. T. Subbarami Reddy: Minister of State in the Ministry of Mines.
33. Dr. Akhilesh Das: Minister of State in the Ministry of Steel.
34. Shri Ashwani Kumar: Minister of State in the Department of Industrial Policy & Promotion, Ministry of Commerce & Industry.
35. Shri Jairam Ramesh: Minister of State in the Department of Commerce, Ministry of Commerce & Industry.
36. Shri Chandra Sekhar Sahu: Minister of State in the Ministry of Rural Development.
37. Smt. D. Purandeswari: Minister of State in the Ministry of Human Resource Development.
38. Jaiprakash Narayan Yadav: Minister of State in the Ministry of Water Resources.
39. M.H. Ambareesh: Minister of State in the Ministry of Information and Public Relations.

Some Important Addresses

President of India

Rashtrapati Bhavan, New Delhi

EPABX: 23025321

Fax: 23017290 & 23017824

E-mail: presidentofindia@rb.nic.in

Website: www.presidentofindia.nic.in

Vice President of India

Vice-President House,

6, Maulana Azad Road,

New Delhi - 110011

Tel: 23016422, 23016344

E-mail: vpindia@sansad.nic.in

Prime Minister

Office: Room No. 152

South Block, New Delhi, 110001

Office Tel: 23012312

Fax: 23016857

Website: www.pmindia.nic.in

Speaker, Lok Sabha

Speaker's Office, Lok Sabha Secretariat

17, Parliament House,

New Delhi - 110001

Tels: (011) 23017795, 23017914,

23013211, Fax: (011) 23792927

Email: lokmail@sansad.nic.in

Election Commission

Nirvachan Sadan

Ashoka Road, New Delhi - 110 001

Tel: 011-23717391

Fax: 011-23713412

Ministry of External Affairs

Office: South Block,

New Delhi - 110 011

Other offices : Akbar Bhavan,

Patiala House, ISIL Building

& Shastri Bhavan

Fax : 23010700 & 23010680,

Telex : 231-61876, 23161878-88

Website:www.meadev.nic.in

Ministry of Home Affairs

North Block, Central Secretariat,

New Delhi - 110 001

Phone : 23092011, 23092161

Fax : 23093750, 23092763

Website:www.mha.nic.in

Central Bureau of Investigation

CBI CONTROL ROOM

Block No. 3, Ground Floor,

CGO Complex, Lodhi Road,

New Delhi - 110 003

Tel : 24361273, 24364130

National Human Rights Commission

Faridkot House

Copernicus Marg

New Delhi - 110 001

Fax : 23384863

Phone (Director Administration)-23382389

University Grants Commission (UGC)

Bahadur Shah Zafar Marg,

New Delhi - 110 002

Tel: EPABX 23236735/23239437/

23235733

Supreme Court of India

Tilak Marg, New Delhi - 110 001

Tel: PABX 23388942, 43, 44

Fax: 11-23383792

E-mail: supremecourt@nic.in

Amnesty International

Hemkunt House

C-161 4th Floor,

Guatam Nagar,

(Behind Indian Oil/ Gulmohar

Commercial Complex)

New Delhi 110 049

Tel: 2685 4763. Fax: 2651 0202

Indian Red Cross Society

National Headquarters, 1,

Red Cross Road,

New Delhi 110 001

Tel : 23716424, Fax : 23717454

Email: indcross@vsnl.com

Union Public Service Commission

Dholpur House, Shahjahan Road,

New Delhi 110 069., Tel : 23385271

Telecom Regulatory Authority of India (TRAI)

Chairperson, A 2/14,

Safdarjung Enclave,

New Delhi - 110 029

Tel: 26101934

E-mail : train@del2.vsnl.net.in

The National Commission for Scheduled

Castes & Scheduled Tribes

Chairman, Vth Floor,

Loknayak Bhawan,

Khan Market, New Delhi 110 003

Tel : 24624714 Fax : 24625378

Chairman's Tel: 24632298, 24620435

E-mail : dir-admin@ncscst.nic.in

chairman-ncscst@ncscst.nic.in

National Commission for Backward Classes

Trikoot - 1,

Bhikaji Cama Place,

New Delhi - 110 066

Tel: 26189210, 26189211

Email: dir_ncbc@nic.in

NIMHANS

Director

NIMHANS

Bangalore - 560 029

Tel : 26995001

E-mail: dnn@nimhans.kar.nic.in

Fax: 26564830

All India Institute of Medical Sciences,

New Delhi - 110029

Tel : 26588500, 26588700, 26589900

Fax : 26588663, 26588641

Centre For Science & Environment

41, Tughlakabad,

Institutional Area,

New Delhi - 110062

Tel: 29955124, 29956110, 29956394

Fax : 29955124

ia.org

**Federation of Indian Chambers of
Commerce & Industry (FICCI)**

Federation House

Tansen Marg,

New Delhi - 110001

Tel : 23738760 - 70 (11 Lines)

Fax : 23320714, 23721504

E-mail : ficci@ficci.com

The Employees' Provident Fund, India

14, Bhavishya Nidhi Bhawan

New Delhi - 110 066

E-mail: cpfindia@vsnl.com

**The Central Provident Fund Commissioner
(CPFC)**

14, Bhikaiji Cama Place,

Bhavishya Nidhi Bhawan

New Delhi - 110 066

Tel: 26172671 Fax: 26172666

E-mail: cpfc@alpha.nic.in

Central Vigilance Commission

Satarkta Bhavan, GPO Complex, INA

New Delhi - 1100023

Tel : 24651001-8

E-mail: cvc@alpha.nic.in

National Commission for Women

4, Deen Dayal Upadhyaya Marg

New Delhi - 110 002

Tel: 23237166, 23236988

Fax : 23236154

Tel - Complaints Cell : 23222369

E-mail: ncw@nic.in

Lalit Kala Akademi

Rabindra Bhawan,

Ferozshah Road, New Delhi - 110 001

Tel: PBX 3387241

Sangeet Natak Academy

Rabindra Bhavan,

35, Ferozeshah Road,

New Delhi 110 001

Tel : 3387245-49

Fax: 23385715

E-mail: sangeetnatak@bol.net.in

National Commission for Minorities

5th Floor, Lok Nayak Bhavan

Khan Market,

New Delhi 110 003

Tel: 24618349

Fax: 24693302

E-mail: mcm-mma@nic.in

Planning Commission

Yojana Bhawan,

Sansad Marg, New Delhi

Tel : 23096677, 2309 6666/96

Extn. 2132/34

E-mail: dch@yojana.nic.in

Coconut Development Board

(Government of India, Ministry of

Agriculture) Kera Bhavan,

Kochi - 682 011, Kerala State, India

Tel : 0484 - 2376265, 2377266,

2377267

Fax : 0484 - 2377902

Central Pollution Control Board

Chairman,

Parivesh Bhawan,

CBD-cum-Office Complex

East Arjun Nagar, Delhi - 110 032

Tel: 22307233

Fax: 22304948

E-mail : pscb.cpsb@nic.in

Animal Welfare Board of India

4th Street, No. 7, 11 Cross Street

Venus Colony, Alwarpet

Chennai - 600 018

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Heads of Important Offices

President of India: A.P.J. Abdul Kalam

Vice-President: B.S. Shekhawat

Minister: Dr. Manmohan Singh

Justice: Justice R.C. Lahoti

Speaker, Lok Sabha: Somnath Chatterjee

Member, Lok Sabha: Charanjit Singh

Member, Rajya Sabha: B.S. Shekhawat

Member, Rajya Sabha: K. Rahman Khan

Member, Planning Commission: Dr. Manmohan Singh

Secretary General: Milon Banerjee

Secretary General: Gooam E. Vahanvati

Comptroller and Auditor-General: V.N. Kaul

Election Commissioner: N. Gopalaswami

Member, Election Commission: S.Y. Quraishi and
Justice B. Chawla

Principal Secretary to the Prime Minister: T.K.A. Rao

National Security Adviser to the Prime Minister: M.K. Narayanan

Principal Scientific Adviser to the Govt.: Dr. R. Vaidyanathan

Registrar-General & Census Commissioner: Dr. K.K. Sikri

Principal Adviser to the Defence Minister: M. V. Reddy

Secretary-General, Lok Sabha: P.D.T. Acharya

Secretary-General, Rajya Sabha: V. Jagannathan

Governor, Reserve Bank of India: Y.V. Reddy

Principal Secretary: B.K. Chatterjee

Principal Secretary: Shiv Shankar Menon

Principal Secretary: V.K. Duggal

Principal Secretary: Ashok Kumar Jha

Principal Secretary: A.V. Singh

Convenor, National Security Advisory Board: M.K. Rasgotra

Chairman, Prime Minister's Economic Advisory Council: Dr. C. Rangarajan

Surveyor General of India: P. Nayak

Chief Vigilance Commissioner: Pratap Singh

Chairman, Central Advisory Board on Labour: A.S. Khataria

Chairman, National Knowledge Commission: Sam Pitroda

Chairman, Prasar Bharti: M.V. Kamath

Chairman, UPSC: K. Ramesh Babu

Chairman, Atomic Energy Commission: Anand K. Kakodkar

Chairman, CSCE: Ashok Ganguly

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Chairperson, AICTE: Dr. B. Viswanath

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Chairman, Public Corporation of India: S. S. Sinha

Chairman, Public Corporation of India: S. S. Sinha

Chairman, Public Corporation of India: S. S. Sinha

Chairman, Public Corporation of India: S. S. Sinha

Chairman, Public Corporation of India: S. S. Sinha

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 Chairman, National Commission on Farmers :
 Dr. M.S. Swaminathan
 Chairman, National Commission for Minorities:
 Mohammad Hamid Ansari
 Chairman, National Commission for SCs : Suraj
 Bhan
 Chairman, National Commission for STs:
 Kunwar Singh
 Chairman, National Commission for Backward
 Classes : Justice S. Ratnavel Pandian
 Chairman, NHRC : Justice A.S. Anand
 Chairman, School Education Commission : U.R.
 Anantha Murthy
 Chairman, Investment Commission : Ratan Tata
 Chairman, Press Council of India : Justice G.N.
 Ray
 Chairman, Press Trust of India: R. Lakshmi pathy
 Chairman, Securities & Exchange Board of India
 : M. Damodaran
 Chairman, State Bank of India : O.P. Bhatt
 Chairman, Tariff Commission : V. Lakshmi Ratan
 Chairman, UGC : S.K. Thorat
 Chairman, United News of India: Manoj Kumar
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 Chairman, ONGC: R.S. Sharma
 Chairman, IRDA : C.S. Rao
 Chairman, UTI: M. Damodaran
 Chairman, Staff Selection Commission: B.K. Misra
 Chairman, ICCR: Dr. Karan Singh
 Chairman, ICHR: Prof. D.N. Tripathi
 Chairman, IFFCO : S.K. Jakhar
 Chairman, Indian Council of Social Science Re-
 search: Andre Bateille
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 Chairman, Tea Board: Basudeb Banerjee
 Chairman, Coir Board: A.C. Jose
 Chairman, Rubber Board: Sajen Peter
 Chairman, Coal India: Sashi Kumar
 Chairman, SAIL: Sushil Kumar Roongta
 Chairman, Sixth Pay Commission: Justice B.N.
 Srikrishna

Chairman, Sangeet Natak Academi : Ram Niwas
 Mirdha
 Chairman, National School of Drama: Amal
 Allana
 Chairman, Kerala St. HRC: N. Dinakaran
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 Rajani Patil
 Chairperson, KVIC: Ms. Kumud Joshi
 Chairperson, Children's Film Society of India :
 Nafisa Ali Sodhi
 Chairperson, National Commission for Women :
 Girija Vyas
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 Director, BARC : S. Banerjee
 Director, CBI : Vijay Shankar
 Director, VSSC : Dr. B.N. Suresh
 Director, Intelligence Bureau: E.S. Lakshmi
 Narasimhan
 Director, NCERT : Prof. Krishna Kumar
 Director, Research and Analysis Wing: P.K.H.
 Tharakan
 Director General, Doordarshan : L.D. Mandloi
 D-G, Border Roads Organisation: Lt. Gen. K.S.
 Rao
 D-G, BSF : A.K. Mitra
 D-G, IIFT: Prabir Sengupta
 D-G, Coast Guard: Vice Admiral Rustom
 Faramroze Contractor
 D-G, CRPF : J.K. Sinha
 D-G, CSIR :R. A. Mashelkar
 D-G, ICAR: Dr. Mangla Rai
 D-G, ICMR : Prof. N.K. Ganguly
 D-G, ASI: Babu Rajiv
 D-G, Ordnance Factories & Ch., Ordnance Fac-
 tory Board : P.K. Misra
 D-G, Employee State Insurance Corporation:
 Ramesh Inder Singh
 D-G, National Cadet Corps: Lt. General Prakash
 S. Chaudhary
 D-G, National Security Guards: Jyoti Krishan
 Dutt
 D-G, Bureau of Police Research & De (BPR&D):
 Kiran Bedi
 Executive Director, Securities and Exchange Board
 of India: Usha Narayanan

ident, Assocham : Anil Agarwal
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 ident, CII : R. Seshasaye
 ident, Editors' Guild of India : M.J. Akbar
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 I. Cama
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 ident, Indian Olympic Association : Suresh
 almadhi
 ident, All India Sports Council: V.K.
 Malhotra

President, Lalit Kala Akademi: R.B. Bhaskaran
 President, UPASI : J. K. Thomas
 President, Indian Hockey Federation: K.P.S. Gill
 Presiding Officer, Securities Appellate Tribunal :
 Justice N.K. Sodhi
 President, Bar Association of India: F.S. Nariman
 Ambassador to USA: Ronen Sen
 Ambassador to Russia : Kanwal Sibal
 Ambassador to China: Ms. Nirupama Rao
 High Commissioner to UK : Kamlesh
 Sharma
 High Commissioner to Pakistan :Shivshankar
 Menon
 India's Permanent Representative to the UN :
 Nirupam Sen
 Vice President, World Bank : Vinod Thomas,
 Anil Sood

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Union Ministers so far

No.	Prime Minister	Oath of office on	Term as PM	No. of days	Total
1.	Jawaharlal Nehru	15.08.1947	1st	895	
2.	Jawaharlal Nehru	26.01.1950	2nd	100	
3.	Jawaharlal Nehru	06.05.1950	3rd	738	
4.	Jawaharlal Nehru	13.05.1952	4th	1800	
5.	Jawaharlal Nehru	17.04.1957	5th	1819	
6.	Jawaharlal Nehru	10.04.1962	6th	778	61
7.	Gulzari Lal Nanda (Acting)	27.05.1964	1st	13	
8.	Lal Bahadur Shastri	09.06.1964		581	58
9.	Gulzari Lal Nanda (Acting)	11.01.1966	2nd	13	
10.	Indira Gandhi	24.01.1966	1st	413	
11.	Indira Gandhi	13.03.1967	2nd	1466	
12.	Indira Gandhi	18.03.1971	3rd	2198	407
13.	Morarji Desai	24.03.1977		856	8
14.	Charan Singh	28.07.1979		170	1
15.	Indira Gandhi	14.01.1980	4th	1752	58
16.	Rajiv Gandhi	31.10.1984	1st	61	
17.	Rajiv Gandhi	31.12.1984	2nd	1797	18
18.	Viswanath Pratap Singh	02.12.1989		343	3
19.	Chandrashekhar	10.11.1990		223	2
20.	P.V. Narasimha Rao	21.06.1991		1791	17
21.	Atal Behari Vajpayee	16.05.1996	1st	16	
22.	H.D. Deve Gowda	01.06.1996		324	3
23.	Inder Kumar Gujral	21.04.1997		332	3
24.	Atal Behari Vajpayee	19.03.1998	2nd	573	
25.	Atal Behari Vajpayee	13.10.1999	3rd	1683	22
26.	Dr. Manmohan Singh	22.05.2004		892	

as on 31.10.2006

No. of days includes caretaker period. * No. of days of three consecutive terms of Indira Gandhi is 41
 CA: Constituent Assembly; PP: Provisional Parliament; LS: Lok Sabha.

Chief Secretaries of States

State/UTS	Name	Office Phone	Office Fax
Andaman & Nicobar	Shumsher K. Sheriff	03192-233110/234087	03192-232656
Andhra Pradesh	Harinarayan	040-23453620, 23455340	040-23453700
Arunachal Pradesh	Tabom Bam	0360-2212595	0360-2212446
Assam	S. Kabilan	0361-2561120, 2561409	0361-540310
Bihar	G.S. Kang	0612-2223804, 2222085	0612-2223983
Chhattisgarh	R.P. Bagal	0771-2221207	0771-2221206
Chandigarh	Lalit Sharma	0172-2740118	0172-2740317
Dadra & N. Haveli	Rajni Kant Verma	0260-2230700	2230775
Daman & Diu	Rajni Kant Verma	0260-2230700	2230775
Delhi	Ramesh Narayanaswamy	011-23392100	011-23392102
Goa	J.P. Singh	0832-2419402	0832-2415201
Gujarat	Suchir Mankad	079-23220372, 23221105	079-23250305
Haryana	Prem Prashant	0172-2740118	0172-2740317
Himachal Pradesh	S.S. Parmar	0177-2621022	2621813
Jammu & Kashmir	C. Phonsog	0194-2455353, 2452257 (S. Ngr)	0194-2452356
Jharkhand	Manoj Kumar	0191-2546773, 2544338 (Jammu)	0191-2546188
Karnataka	Dr. Malati Das	0651-2403240, 2403250	0651-2403255
Kerala	Jyoti Mathai	080-22252442, 22092476	080-22258913
Lakshadweep	Rajendra Kumar	0471-2333147, 2327376	0471-2327176
Madhya Pradesh	R.C. Sahni	04395-262255	04396-262184
Maharashtra	D.K. Shankaran	0755-2551370	0755-2551521
Manipur	Jamali Singh	022-22025042, 22028762	022-22028594
Meghalaya	S.K. Tiwari	0363-221144, 220064	0363-222626
Mizoram	Hauzel Haukhum	0364-2224801, 222250	0364-2225978
Nagaland	Lai Huma	0365-2224477	0365-2222745
Orissa	S.C. Pari	0674-2270082, 2270075	0674-2270057
Pondicherry	C.S. Khairwal	0473-2334300, 2336700	0473-2336651
Punjab	K.R. Lakhtanpai	0173-224445, 2335512	0173-2337575
Rajasthan	Anil Vaisr	0173-2240159, 2240261	0173-2242482
Sikkim	N.C. Chingapa	0173-2240159, 2240261	0173-2242482
Tamil Nadu	L. Tripathy	044-25561222	044-25561222
Tripura	R.K. Mathur	0361-2222222, 2224199	0361-2224199
Uttar Pradesh	Naveen Chandra Jaipal	0522-2221599, 2222211	0522-2221599
Uttaranchal	M. Ramachandran	0135-2712100, 2712200	0135-2712100
West Bengal	Amit Kumar Das	033-22215858	033-22215858

STATE BHWANS UNTHAW/DHAW

Andhra Bhawan	Tel: 23382031	Manipur Bhawan	Tel: 2462812
Assam Bhawan	Tel: 23011915	Meghalaya House	Tel: 2301560
Assam Bhawan	Tel: 23015551	Mizoram House	Tel: 2301595
Assam House	Tel: 23015551	Nagaland House	Tel: 2301434
Bihar Bhawan	Tel: 23010147	Orissa Bhawan	Tel: 2467920
Bihar Bhawan	Tel: 26115251	Punjab House	Tel: 2338543
Chhattisgarh Bhawan	Tel: 26110525, 26111210	Rajasthan Bhawan	Tel: 2469424
Goa Sadan	Tel: 24679967	Sikkim House	Tel: 26115340
Gujarat Bhawan	Tel: 24673661	Tamil Nadu House	Tel: 23015480
Haryana Bhawan	Tel: 23386131	Tripura Bhawan	Tel: 2301515
Himachal Bhawan	Tel: 23216124	U.P. Bhawan	Tel: 26110151
Himachal Sadan	Tel: 23216125	Uttaranchal Niwas	Tel: 2301426
Jammu and Kashmir	Tel: 24611506, 24611210	Banga Bhawan (West Bengal)	Tel: 23221996
Jharkhand Bhawan	Tel: 26109936	Union Territories	
Karnataka Bhawan	Tel: 24103701	Andaman and Nicobar Bhawan	Tel: 2687443
Kerala House	Tel: 23365811, 23343304	Lakshadweep	
M.P. Bhawan	Tel: 23015544, 23015545	Guest House/Bhawan	Tel: 23386807
Maharashtra Sadan	Tel: 23388025	Pondicherry House	Tel: 26118174
		Delhi	Tel: 23928686

WOMEN CHILD MINISTERS UNTHAW

Sl. No.	State	Period	Party
1. Sucheta Kripalani	UP	2 Oct. 1963 to 14 Mar. 1967	Congress
2. Mandira Satpaty	Orissa	14 June 1972 to 03 Mar. 1974 & 6 Mar. 1974 to 16 Dec. 1976	Congress
3. Sadikala Kadakat	Goa	13th Aug. 1973 to 21th June 1977 & 21th June 1977 to 28th Apr. 1979	Maharashtrawak Gomantak Party
4. Syeda Anwarul Faiz	Assam	12th Dec. 1980 to 29th June 1981	Congress

Janaki Ramachandran	TN	7th to 30th Jan. 1988	A.I.A.D.M.K. (Janaki)
J. Jayalalithaa	TN	24th June 1991 to 13th May 1996	
		14th May to 21st Sept. 2001	
		2nd Mar. 2002 to 12th May 2006	A.I.A.D.M.K
Mayawati	UP	3rd June 1995 to 18th Oct. 1995 & 21st Mar. 1997 to 21st Sept. 1997	
		3rd May 2002 to 29th Sept. 2003	B.S.P
Rajinder Kaur Bhattal	Punjab	21st Nov. 1996 to 12th Feb. 1997	Congress
Rabri Devi	Bihar	25th July 1997 to 12th Feb. 1999 & 9th Mar. 1999 to 3rd Mar. 2000 & 11th March 2000 to 7th Jan. 2005	R.J.D
Sushma Swaraj	Delhi	12th Oct. to 3rd Dec. 1998.	B.J.P
Sheila Dixit	Delhi	3rd Dec. 1998 to 15th Dec. 2003	Congress
		Since 15th Dec. 2003-	
Uma Bharti	M.P	8th Dec. 2003 to 23rd Aug. 2004	B.J.P
Vasundhara Raje	Rajasthan	8th Dec. 2003	B.J.P

Women Governors in India (1947-2002)

No. Name	Period	State
1. Sarojini Naidu	15.08.1947 - 02.03.1949	United Provinces/UP
2. Padmaja Naidu	03.11.1956 - 01.06.1967	West Bengal
3. Vijayalakshmi Pandit	27.11.1962 - 05.09.1963	
	18.12.1963 - 08.10.1964	Maharashtra
4. Sharada Mukherjee	05.05.1977 - 14.08.1978	Andhra Pradesh
	14.08.1978 - 06.08.1983	Gujarat
5. Jyothi Venkatachalam	14.10.1977 - 27.10.1982	Kerala
6. Kumudben Joshi	26.11.1985 - 07.02.1990	Andhra Pradesh
7. Ram Dulari Sinha	23.02.1988 - 12.02.1990	Kerala
8. Serla Grewal	31.03.1989 - 06.02.1990	Madhya Pradesh
9. Chandrawati	19. 02.1990 - 19.12.1990	Pondicherry(UT)
10. Rajendrakumari Bajpayi	02.05.1995 - 23.04.1998	Pondicherry(UT)
11. Sheila Kaul	17.11.1995 - 23.04.1996	Himachal Pradesh
12. Justice M. Fathima Beevi	25.01.1997 - 01.07.2001	Tamilnadu
13. V.S. Rama Devi	26.07.1997 - 02.12.1999	Himachal Pradesh
	02.12.1999 - 10.8.2002	Karnataka
14. Rajani Rai	23.04.1998 - 31.07.2002	Pondicherry(UT)
15. Pratibha Patil	08.11.2004 -	Rajasthan

Jurisdiction and Seat of High Courts

Name	Year	Territorial Jurisdiction	Seat
Allahabad	1866	Uttar Pradesh	Allahabad (Bench at Lucknow)
Andhra Pradesh	1954	Andhra Pradesh	Hyderabad
Bombay	1862	Maharashtra, Goa, Dadra and Nagar Haveli and Daman and Diu	Mumbai (Benches at Nagpur, Panaji and Aurangabad)
Calcutta	1862	West Bengal	Kolkata (Circuit Bench at Port Blair)
Chhattisgarh	2000	Chhattisgarh	Bilaspur
Delhi	1966	Delhi	Delhi
Guwahati ¹	1948	Assam, Manipur, Meghalaya, Nagaland, Tripura, Mizoram and Arunachal Pradesh	Guwahati (Benches at Kohima, Aizawl, Imphal, Shillong, Agartala and Itanagar)
Gujarat	1960	Gujarat	Ahmedabad
Himachal Pradesh	1971	Himachal Pradesh	Shimla
Jammu and Kashmir	1928	Jammu and Kashmir	Srinagar and Jammu
Jharkhand	2000	Jharkhand	Ranchi
Karnataka ²	1884	Karnataka	Bangalore
Kerala	1958	Kerala and Lakshadweep	Ernakulam
Madhya Pradesh	1956	Madhya Pradesh	Jabalpur (Benches at Gwalior and Indore)
Madras	1862	Tamil Nadu and Pondicherry	Chennai (Bench at Madurai)
Orissa	1948	Orissa	Cuttack
Patna	1916	Bihar	Patna
Punjab and Haryana ³	1966	Punjab, Haryana and Chandigarh	Chandigarh
Rajasthan	1949	Rajasthan	Jodhpur (Bench at Jaipur)
Sikkim	1975	Sikkim	Gangtok
Uttaranchal	2000	Uttaranchal	Dehradun

1 Originally known as Assam High Court, renamed as Guwahati High Court in 1971.

2 Originally known as Mysore High Court, renamed as Karnataka High Court in 1973.

3 Originally known as Punjab High Court, renamed as Punjab and Haryana High Court in 1966.

Supreme Court of India

The Federal Court of India (later Supreme Court), which became the highest authority in India, was created in 1937. Supreme Court of India replaced the Federal Court of India on 26, 1950.

GOVERNORS OF RBI 1935-2005

Name	Period
1. Sir Osborne Smith	01-04-1935 to 30-06-1937
2. Sir James Taylor	01-07-1937 to 17-02-1943
3. Sir C. D. Deshmukh	11-08-1943 to 30-06-1949
4. Sir Benegal Rama Rau	01-07-1949 to 14-01-1957
5. K.G. Ambegaonkar	14-01-1957 to 28-02-1957
6. H. V. R. Iengar	01-03-1957 to 28-02-1962
7. P. C. Bhattacharya	01-03-1962 to 30-06-1967
8. L. K. Jha	01-07-1967 to 03-05-1970
9. B.N. Adarkar	04-05-1970 to 15-06-1970
10. S. Jagannathan	16-06-1970 to 19-05-1975
11. N.C. Sen Gupta	19-05-1975 to 19-08-1975
12. K.R. Puri	20-08-1975 to 02-05-1977
13. M. Narasimham	02-05-1977 to 30-11-1977
14. Dr. I.G. Patel	01-12-1977 to 15-09-1982
15. Dr. Manmohan Singh	16-09-1982 to 14-01-1985
16. A Ghosh	15-01-1985 to 04-02-1985
17. R.N. Malhotra	04-02-1985 to 22-12-1990
18. S. Venkitaramanan	22-12-1990 to 21-12-1992
19. Dr. C. Rangarajan	22-12-1992 to 21-11-1997
20. Dr. Bimal Jalan	22-11-1997 to 06-09-2003
21. Dr. Y.V. Reddy	06-09-2003.....

National Anthems

Bangladesh: (Amar Sonar Bangla) First line: My
 golden Bengal, I love you
 Canada: O Canada, Our Home and Native Land
 China: March of the Volunteers
 Dominica: Isle of Beauty
 Estonia: My Fatherland
 Germany: Unity and Right and Freedom
 Greece: Hymn to Freedom
 Hungary: God Bless the Hungarians
 Iceland: O God of Our Country

Myanmar (Burma): We Shall Love Burma Evermore
 Pakistan: Quami Tarana
 Panama: Victory is Ours at Last
 Russia: Slavsya (Be Great)
 Saudi Arabia: Long Live Our Beloved King
 Sri Lanka: Sri Lanka Matha, Apa Sri Lanka
 (Mother Sri Lanka, thy Sri Lanka)
 Tanzania: God Bless Africa
 UK: God Save the Queen
 USA: The Star-Spangled Banner

Congress Presidents

Bombay	W.C. Bonnerjee	1920 Nagpur	(Annual Session)
Calcutta	Dadabhai Naoroji		C. Vijayaragavachariar
Madras	Badurddin Tyabji	1921 Allahabad	C.R. Das (In Prison)
Allahabad	George Yule		Acting President Hakim Ajmal Khan
Bombay	Sir William Wedderburn	1922 Gaya	C.R. Das
Calcutta	Sir Phirozshah Mehta	1923	(Special Session) Lajpat Rai
Nagpur	P. Ananda Charlu	1923 Kakinada	(Annual Session)
Allahabad	W.C. Bonnerjee		Mohammed Ali
Lahore	Dadabhai Naoroji	1924 Belgaum	M.K. Gandhi
Madras	Alfred Webb	1925 Kanpur	Mrs. Sarojini Naidu
Poona	S.N. Banerjee	1926 Gauhati	S. Srinivasa Iyengar
Calcutta	Rahimtulla Sayani	1927 Madras	Dr. M.A. Ansari
Amravati	Sir C.S. Nair	1928 Calcutta	Motilal Nehru
Madras	A.M. Bose	1929 Lahore	Jawaharlal Nehru
Lucknow	R.C. Dutt	1930 Karachi	Jawaharlal Nehru
Lahore	N.G. Chandravarkar	1931	Vallabhbhai Patel
Calcutta	D.E. Wacha	1932	R. Amritlal
Ahmadabad	S.N. Banerjee	1933 Calcutta	Mrs. Nellie Sen Gupta
Madras	L.M. Ghosh	1934 Bombay	Rajendra Prasad
Bombay	Sir Henry Cotton	1935 Lucknow	Rajendra Prasad
Banaras	G.K. Gokhale	1936	Jawaharlal Nehru
Calcutta	Dadabhai Naoroji	1937 Fazipur	Jawaharlal Nehru
Surat	Dr. Rash Behari Ghosh	1938 Haripura	Subhas Chandra Bose
Madras	Dr. Rash Behari Ghosh	1939 Tripuri	Subhas Chandra Bose
Lahore	M.M. Malaviya		(Subhas Chandra Bose was re-elected but had to resign. Rajendra Prasad was appointed in his stead)
Allahabad	Sir William Wedderburn	1940-46	(Maulana) Abul Kalam Azad
Calcutta	B.N. Dhar	1946 (July-Sept.)	Jawaharlal Nehru
Patna	R.N. Madholkar	1946-47 Meerut	J.B. Kripalani
Karachi	Syed Mohammad Bahadur	1948 Jaipur	Pattabhi Sitaramaiah
Madras	Bhupendra Nath basu	1950 Nasik	Purushotam Das Tandon
Bombay	Sir S.P. Sinha	1951 Delhi	Jawaharlal Nehru
Lucknow	A.C. Mazumdar	1953 Hyderabad	Jawaharlal Nehru
Calcutta	Mrs. Annie Besant	1954 Kalyan	Jawaharlal Nehru
1918	(Special Session) Hassan Imam	1955 Avadi	U.N. Dhebar
1918 Delhi	(Annual Session) M.M. Malaviya		
1919 Amritsar	Motilal Nehru		

Indore	U.N. Dhebar	1971 Ahmedabad	D. Sanjivayya
Pragytishpur	U.N. Dhebar	1972 Calcutta	Shankar Dayal Sharma
Nagpur	U.N. Dhebar	1975 Chandigarh	D.K. Barooah
Bangalore	Indira Gandhi	1976 New Delhi	Brahmananda Reddy
Bhavnagar	N. Sanjiva Reddy	1978 New Delhi	Indira Gandhi
New Delhi	D. Sanjivayya	1983 Calcutta	Indira Gandhi
Bhubaneswar	K. Kamaraj	1984 New Delhi	Rajiv Gandhi
Durgapur	K. Kamaraj	1985 Bombay	Rajiv Gandhi
Jaipur	K. Kamaraj	1991 New Delhi	P.V. Narasimha Rao
Bangalore	S. Nijalingappa	1996 New Delhi	Sitaram Kesri
New Delhi	C. Subramaniam	1998 New Delhi	Sonia Gandhi

Major Airports of India with Codes

Chennai	IXA	Imphal	IMF	Raipur	RPR
Coimbatore	AGX	Indore	IDR	Rajkot	RAJ
Cuttack	AGR	Jabalpur	JLR	Ranchi	IXR
Delhi	AMD	Jaipur	JAI	Shillong	SHL
Dibrugarh	AJL	Jammu	IXJ	Silchar	IXS
Durgam	ATO	Jamshedpur	JGA	Srinagar	SXR
Erode	IXU	Jodhpur	IXW	Surat	STV
Gurgaon	IXB	Jorhat	JDH	Tezpur	TEZ
Hyderabad	BLR	Kanpur	JRH	Thiruvananthapuram*	TRV
Jaipur	IXG	Kochi*	KNU	Tiruchirapalli	TRZ
Kolkata	BHO	Kolhapur	COK	Tirupati	TIR
Ludhiana	BBJ	Kolkata*	KLH	Udaipur	UDR
Madurai	IXC	Kozhikode	CCU	Vadodara	BDQ
Mangalore	MAA	Leh	CCJ	Varanasi	VNS
Mumbai	CJB	Lilabari	IXL	Vijayawada	VGA
Nagpur	DEL	Lucknow	IXI	Visakhapatnam	VTZ
Noida	DED	Madurai	LKO		
Patna	DIB	Mangalore	IXM		
Port Blair	DMU	Mumbai*	IXE		
Pune	GAY	Nagpur	BOM		
Rajkot	GOI	Patna	NAG		
Ranchi	GAU	Port Blair	PAT		
Shillong	HBX	Pune	IXZ		
Srinagar	HYD		PNQ		

126 Airports

Airports Authority of India manages 126 airports, which include 12 International, 88 domestic and 26 civil enclaves at Defence airfields. In the list above, asterisk (*) marks are given for Intl. airports.

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Amritsar	Motilal Nehru	1955 Avadi	U.N. Dhebar

Mythological Characters

Indian

Abhimanyu: The heroic son of Arjuna, the central figure of the Mahabharata, by his wife Subhadra.

Adhiratha: Foster father of Karna.

Aditi: Daughter of Daksha Prajapati. Devas are sons born to Kasyapa by Aditi and hence they are known as Aditeyas also.

Ahalya: A Princess of the Puru dynasty, who was turned into a stone by the curse of her husband, Gautama.

Anasuya: Wife of sage Atri, son of Brahma.

Angiras: Hermit born from the mind of Brahma. Six mind-born sons (Manassa-Putras) were born to Brahma, known as Marichi, Angiras, Atri, Pulastya, Pulaha and Kratu.

Anjana: Mother of Hanuman. Wife of Kesari, the noble monkey and daughter of Kunjara, the monkey leader.

Arjuna: The third of the Pandavas.

Arundhati: Wife of sage Vasishtha. She was born as the daughter of Kardamma Prajapati and Devahuti.

Asvapati: Father of the most chaste woman, Savitri.

Asvathama: Son of Drona and Kripa

Agneyi: Wife of Kuru, son of Manu.

Balabhadra (Balarama, Baladeva): The elder brother of Srikrishna and the eighth incarnation of Mahavishnu.

Bali (Mahabali): An emperor of the Asuras. He was the son of Virochana and the grandson of Prahlada.

Bharata: Son of Dasaratha

Bhima: Bhimasena, one of the five Pandavas.

Bhishma: Eighth son of Santanu, a king of the lunar dynasty and Gangadevi.

Brihaspati: The teacher of the devas (Gods)

Bhurisravas: Son of Satyaki who was killed by Satyaki when he was sitting in a yoga position.

Damayanti: Daughter of Bhima, the king of Vidarbha. The famous hero Nala is his husband.

Dasaratha: A famous king of the Ikshvaku dynasty, father of Srirama.

Devayani: Sukracharya's daughter.

Dharmaputra: The eldest of the Pandavas

Dhrishtadyumna: The son of king Drupada. He was brother of Panchali.

Dhritarashtra: Father of the Kauravas.

Drona: The teacher in archery of the Pandavas and the Kauravas.

Duryodhana: Villain in the Mahabharata story, the eldest of the Kauravas.

Dussala: The only daughter of Dhritarashtra by Gandhari.

Gandhari: Wife of Dhritarashtra.

Ghatotkacha: Son born to Bhima and Hidimbi.

Harischandra: A king of the solar dynasty very much reputed for his unique truthfulness and integrity. He was the son of the famous Trisanku.

Indra: Son of Kashyapa and Aditi

Indrajit: Ravana's son, Meghanada

Indrani: Wife of Indra

Iravan: Son of Arjuna and the Naga princess Uloopi. He was killed by the raksha Alambasa.

Jahnu: A hermit king born in the family of Puru. He swallowed the river Ganga and

later released it through his ears.

Jambavan: A monkey of extraordinary might. He was the minister of Sugriva.

Jambavati: Daughter of the famous Jambavan.

Kaikeyi: One of the wives of Dasaratha, who had three wives, Kausalya, Kaikeyi and Sumitra.

Kaitava: Another name of Uluka, the son of Sakuni.

Kamsa: Son of Ugrasena, king of Mathura, and an incarnation of an Asura called Kalanemi.

Karna: The eldest son of Kunti. Though he was the brother of the pandavas he joined sides with the Kauravas and became the king of Anga.

Krishna: Born in the Yadava dynasty as the son of Vasudeva and Devaki; the ninth of the incarnations of Mahavishnu.

Kunti: Wife of king Pandu and the mother of the Pandavas.

Kusa: One of the two sons of Srirama, the other, being Lava.

Lakshmana: Son born to Dasaratha by Sumitra.

Lopamudra: Wife of Agastya.

Madri: The second wife of Pandu was the mother of Nakula and Sahadeva. Pandu expired when he embraced his wife Madri.

Maitreyi: Wife of the sage Yajnavalkya.

Mandavi: Wife of Bharata.

Mandodari: Wife of Ravana

Manini: Mother of Visravas, father of Ravana.

Panchali-Draupati: wife of the Pandavas.

Parasara: Sakti, son of Vasishta begot of his wife Adrsyanti the son named Parasara.

Parasurama: An incarnation of Mahavishnu, as man

Greek and Roman

Greek	Roman
Zeus	- Jupiter (Chief god& God of heaven)
Hera	- Juno (Chief goddess)
Cronus	- Saturn (God of agriculture)
Demeter	- Ceres (Goddess of agriculture)
Eos	- Aurora (Goddess of the dawn)
Thanatos	- Mors (God of the dead)
Hecate	- Libitina (Goddess of the death)
Ares	- Mars (God of destruction & war)
Morpheus	- Morpheus (God of dreams)
Aesculapius	- Aesculapius (God of the earth)
Gaia	- Tellus (Goddess of the earth)
Priapus	- Faunus (God of fertility)
Artemis	- Diana (Goddess of fertility)
Hestia	- Flora (Goddess of flowers)
Hygeia	- Salus (Goddess of health)
Eros	- Cupid (God of love)

Hymen	- Hymen (God of marriage)
Apollo	- Apollo (God of moon, music, poetry& wisdom)
Rhea	- Ops (Goddess of motherhood)
Irene	- Pax (Goddess of peace)
Poseidon	- Neptune (God of the sea)
Hypnos	- Somnus (God of sleep)
Persephone	- Proserpine (Goddess of spring)
Helios	- Sol (God of the sun)
Hephaestus	- Jupiter (God of thunder)
Themis	- Justitia (Goddess of truth)
Pluto/Hades	- Orcus/Dis (God of the Under world)
Hecate	- Proserpine (Goddess of Under world)
Nike	- Victoria (Goddess of victory)
Athene	- Minerva (Goddess of war & wisdom)
Dionysus	- Bacchus/Liber (God of wine)
Pan	- Silvanus (God of woods)
Hebe	- Juve

Arjuna: Son of Siva
Arjuna: A son born to Srikrishna of his yabhamama.
Arjuna: A Son born to Srikrishna of Rukmini.
Arjuna: Son of Hiranyakasipu and ...
Arjuna: Srikrishna's dearest consort.
Arjuna: The seventh incarnation of ...
Arjuna: The Rakshasa king of Lanka who ...
Arjuna: Another name of Parvati.
Arjuna: Ruler of Bhojakata who offered his ...
Arjuna: to both the Pandavas and the ...
Arjuna: of Srikrishna's wife Rukmini.
Arjuna: The notorious uncle of ...
Arjuna: Goddess of learning
Arjuna: The wife of Satyavan
Arjuna: Commander-in-chief of the ...
Arjuna: Pandu, was Shalya's sister.
Arjuna: Rebirth of Amba, daughter of ...
Arjuna: One of the Trinity, the other two be-
Arjuna: hama and Vishnu.
Arjuna: Wife of Satrugna
Arjuna: Son of Varuna by Parnasa. He ...
Arjuna: died when he angrily threw his magic

Subhadra: Sister of Srikrishna and wife of Arjuna.
Sudama: The real name of Kuchela, who was the friend of Srikrishna in boyhood.
Sudeshna: The wife of Virata, the king of Matsya.
Sugriva: Son born to the Sun by Aruni.
Sukracharya: Preceptor of the Asuras.
Sumaha: The charioteer of Parasurama.
Sumantra: A minister of king Dasaratha of Ayodhya.
Svaha: A daughter of Brihaspati.
Trisanku (satyavrata, Matanga): A celebrated king of the solar dynasty.
Ugrasena: Father of Kamsa.
Urmila: Wife of Lakshmana.
Vaisampayana: A prominent disciple of Vyasa. It was Vaisampayana who told the story of Bharata composed by Vsyasa, to king Janamejaya.
Vamana: An incarnation of Mahavishnu.
Vasudeva: Father of Srikrishna.
Vibhishana: Brother of Ravana.
Vidura: Brother of Dhritarashtra
Vikarna: One of the hundred sons of Dhritarashtra.
Visravas: Father of Ravana.
Vishvakarma: The architect of the Devas.
Yajnasena: Drupada, the son of king of Panchala.
Yasoda: Foster-mother of Srikrishna.

Musical Instruments

Accordion Portable musical instrument with a small keyboard and free metal. The player operates pleated bellows to force air past the reeds.

Bagpipes Ancient instrument having a flexible bag inflated by being blown through a tube by bellows. You play bagpipes blowing air through a pipe into a leather bag,

and squeezing the bag to force the air out through other pipes. Versions of the bagpipe include the Bulgarian gaida, the cornemuse of France and Belgium, the gaita of northwestern Spain and the Irish Uilleann pipes.

Balalaka Russian instrument with a triangular body and three strings.

Banjo Musical instrument with a circular body and four or more strings.

Baryton Stringed instrument similar to viola da gamba but with sympathetic strings.

Bouzouki Greek fretted string instrument with a long neck and four sets of strings.

Cabaca / Cabasa Latin American percussion instrument, a round or pear-shaped gourd covered with beads and fitted with a handle.

Celesta Small keyboard instrument, with metal plates struck by hammers which produce bell-like tones.

Cello Bass violin. It is held between the player's knees.

Cembalo The Italian name of harpsichord.

Clarinet Single-reed woodwind instrument. It has a straight tube and a single reed in its mouthpiece.

Console Part of organ by which the musician operates the instrument.

Cymbals Two round brass plates are struck together to make clanging sounds.

Flute It is shaped like a long tube with holes in it. It is held sideways to one's mouth and blown.

French harp Harmonica.

Gong Little bells, e.g. sleigh bells, used as percussion.

Guitar Similar to the lute. It has a large flat-backed sound box in the shape of a violin, a long fretted neck and usually six strings.

Harmonica Mouth organ with metal

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reed-s. 2 types - the chromatic and the diatonic.

Harmonium Small portable reed organ perfected by Alexandre Debain of Paris in the early 1840's.

Harp Freestanding instrument whose vertical strings are played with the fingers.

Harpichord Piano-like instrument common in 16th to 18th centuries. The strings are sounded by means of quill or leather plectrums.

Hawaiian guitar Ukulele introduced by the Portuguese.

Hityokin Japanese vertical flute made of bamboo.

Hornpipe Wind instrument with a single reed and a cow's horn fitted on the end.

Irish harp It is small harp played while held in the lap.

Jew's harp Small folk instrument consisting of a metal frame held between the player's teeth while the metal strip in the frame is twanged.

Mandocello Bass mandolin.

Mandolin Instrument in the lute family, fretted and with 8 wire strings tuned in four pairs. Monochord Musical instrument with one string.

Mouth organ The term covers many instruments with metal reeds but nowadays is synonymous with the harmonica.

Nose flute Polynesian bamboo flute blown through the nostrils.

Pan-pipes Made of a series of pipes or reeds. It is played by blowing across the open ends; mouth organ.

Piano Instrument with a manual keyboard. Hammers (Pianoforte) strike wire strings and produce sounds. Pedals soften or sustain sounds. Full name : Pianoforte.

Piano accordion Accordion with a piano-like keyboard played with the right hand.

Saxophone Single-reed family of instruments, usually metal but sometimes plastic, invented by Adolphe Sax.

Sitar An Indian stringed instrument made of seasoned gourds and teak. It has a fretted neck with 20 metal frets, three to seven main playing strings and 13 resonating strings.

Tablas A symmetrical pair of conical, wooden Indian drums, beaten with the hands.

Tambura Long-necked, round-bodied lute, Indian tamburas have 4 strings, drone pegs and a moveable ivory bridge to adjust pitch. Balkan tamburas are fretted.

Tambourine Instrument with a small drumhead with metal discs. Its discs are known as jingles. Tambourine is shaken with one hand and struck with the other.

Tin whistle High pitched, end-blown flute with finger holes.

Trombone Brass instrument, larger than a trumpet, and with a sliding tube to extend notes.

Trumpet Brass wind instrument consisting of a long metal tube looped once ending in a flared bell. A trumpet has three valves.

Ukulele It is a small four-stringed instrument originally from Hawaii, developed from a kind of Portuguese guitar.

Upright piano Piano in which strings are vertical.

Vina Stringed instrument of India which has a long fretted fingerboard resting on two resonating gourds at each end. The South Indian vina has a much broader fingerboard than the one in northern India, and a wooden body in place of one of the gourds.

Viola A four-stringed instrument of the violin family, slightly larger than a violin, having a deeper tone. Viola da gamba is a bass viol played between the knees.

Violin Four-stringed instrument played with a bow.

Xylophone Percussion instrument consisting of a mounted row of tuned wooden bars graduated in length to sound a chromatic scale. It is played with two mallets.

The Romance of Passenger Cars

Milestones in the history of major car makers in India

The first automobile imported into India was a French-made De Dion Bouton. It was imported by the Maharaja of Patiala in 1892. The car had the licence plate number 'O'. The first India-made car Hindustan 10 appeared in 1948.

What has happened to the automobile scene in India since 1948 is mind-boggling, and the variety of passenger cars available in the country today is incredible. Here is a list of the major car-makers and their products.

Maruti Udyog Ltd.

Maruti Udyog Ltd incorporated under the provisions of Indian Companies Act, 1956 (1981); Licence of agreement signed between Maruti & Suzuki Motor Corporation of Japan (1982); India's first affordable car, Maruti-800 launched (1983); Institute of Driving Training & Research (IDTR) launched jointly with Delhi Government (2000); Suzuki Motor Corporation (SMC) increases its stake in Maruti to 54.2% (2002); Partnership with SBI (2003); 5 millionth car rolls out (2005).

Popular models:

Maruti 800, Omni,

Zen, Esteem,

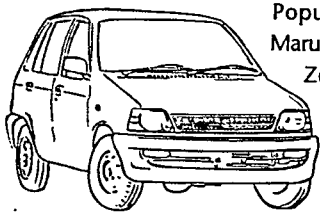
Gypsy,

Baleno,

Wagon R,

Alto, Versa,

Swift....



Maruti

Tata Motors

Tata Engineering & Locomotive Co. Ltd. established to manufacture locomotives and other engineering products (1945); Steam road roller introduced (1948); Collaboration with Daimler Benz AG, for manufacture of medium commercial vehicles (1954); First commercial

vehicle manufactured (1977); Manufacture of heavy commercial vehicles commences (1983); First hydraulic excavator produced with Hitachi collaboration (1985); First light commercial vehicle Tata 407 (1986); Launch of first indigenous passenger car Tata Sierra (1991); Joint venture agreement signed with M/s. Daimler-Benz/Mercedes-Benz for manufacture of Mercedes Benz passenger cars in India (1994); Mercedes Benz car E 220 launched (1995); Exits joint venture with Daimler Chrysler (2001); Tata Engineering becomes Tata motors (29.7.2003); Acquisition of Daewoo Commercial Vehicles Company (2004); Rolls out 500,000 passenger vehicles (2005).

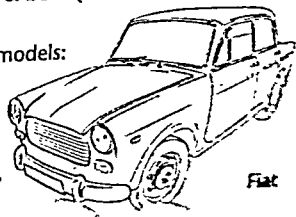
Popular models: Tata Estate, Sumo, Safari, Indica, Indigo, Indigo Marina, Indica V₂, Xeta.

Fiat

Fiat (Fabbrica Italiana-di Automobile-Torino) founded in Turin, Italy (11.7.1899); Fiat 509, first car with 4 seats launched (1923); First Fiat diesel engine vehicle, Fiat 1400 presented (1953); First car with front wheel drive, Fiat 127 launched (1971); Company takes over Alfa Romeo (1984); Enters SUV sector (1994); Fiat Palio comes out (1997); First Fiat MPV, Fiat Idea, created (2004); Tata Motors commences distribution of Fiat cars across India (2006); Fiat has produced more than 85 million passenger cars & LCVs (about 400 models) since 1899.

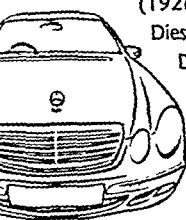
Popular models:

Fiat 500, Panda, Uno, Punto, Palio, Adventure.



Fiat

Benz & the team of Gottfried Daimler & Maybach invent the automobile (1886); 35 PS-first modern designed car (1901); applies first petrol engine vehicle in (1907); Benz & Cie, partners of DMG Merger between DMG & Benz-Cie



Benz

(1926); Mercedes Diesel Wagen 260

D, passenger car (1936);

Mercedes-Benz 230 SL-first sports car

(1963); First electric van - LE

306 (1972); World

Mercedes-Benz S-class (1978); New R-107 concept debuts (2005); Two-mode technology shown together with colleagues GM & BMW (2006).

Popular Models: A-class, S-Class-S 350L, C-Class C 200K, E-Class E 200K

Mitsubishi Motor Corporation

Mitsubishi, launches first automobile, 'Model A' (1917); First car 'Colt' launched by Mitsubishi (1962); Mitsubishi Motor Corporation is formed in Japan (1970); Colt car is formed (joint venture partnership between MMC & Colt Automotive Ltd.) (1974); Colt launched (1982); Libero electric car is launched (1994); Joint venture between MMC, Volvo and Dutch government for development of GDI engine (1996); Mitsubishi & Daimler Chrysler formally signed agreement (2000).



Volvo

Popular models:

Lancer, Cedia, Pajero, Galant, L200.

Vaclav Laurin & Vaclav Klement start making bicycles, naming them Slavia (1895); Laurin & Klement Co. begins to manufacture motorcycles (1899); Voiturette A - first automobile (1905); Laurin & K merges with Skoda Pilsen & Made Skoda Auto co., in Czechoslovakia (1925); Tudor, Spartak, Octavia appear (1950s);

Vehicle

'Favorit'

launched

(1987);

Skoda

joins VW

Konzern,

Andi, SEAT

(1991).

Popular models: Octavia, Superb, Elegance, Combi.

Nissan

In 1914, the Kwaishinsha Motor Car Works, established three years earlier, built the first car DAT. In 1918, company renamed Kwaishinsha Motor Car Co., and in 1925, named DAT Motor Car Co. After a long renaming process, company became Nissan; Nissan Motor Co. Ltd. Founded by Yoshisuke Aikawa in Japan (1934); Nissan chooses Austin, UK as partner in 1930's and makes Austin models; Nissan merges with Prince Motor Co (1966); Nissan's head office is now in Tokyo but will move to Yokohama in 2010; Nissan establishes assembly operations in United States, South Africa, UK.

Popular Models: Nissan Infiniti, Sentra, Armada, Altima, 350Z, Maxima, Pathfinder.

Rolls Royce

Rolls Royce established by Henry Royce, London (1884); builds the first car. Agreement reached between Royce Ltd. and CS Rolls & Co. (1904); formation of Rolls-Royce company in March; launch of 'Silver Ghost' (1906); Enters aero-engine industry (1914); merges

with Bristol Siddeley (1959); joint venture with BMW (1990); Allison Engine Company acquired (1995); Rolls Royce Motor Cars was sold by Vickers to Volkswagen, although BMW holds the rights to the name and marque for use on Rolls-Royce cars, having acquired the rights from Rolls Royce in 1998 (1998); Acquisition of Cooper Energy Services Acquires National Automotive (1999); BMW takes over responsibility for Rolls-Royce cars (2003).

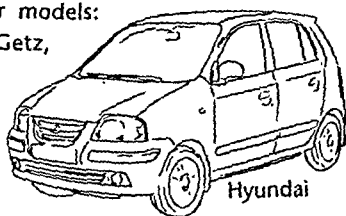
Popular Models: Silver Ghost, Phantom, Silver Dawn, Park Ward, Silver Seraph, Corniche.

Hyundai Motor Company

Hyundai Auto Services established in South Korea by Ju-Yung Chung (1946); Hyundai Motor Company founded by Ju-Yung Chung and Se-Yung Chung in South Korea (1967); Contract with Ford Motor Company (1968); First model 'Pony' (1975); 'Excel' First front wheel drive automobile (1985); Partners with Mitsubishi (1992); Introduces 'Accent' (1995); 'Dynasty' launched (1996); Purchases Kia Motors (1998); Daimler Chrysler purchases 10.5% stake in Hyundai (2000); enters SUV market (2001); Introduces Terracan (2002).

Popular models:

Santro, Getz,
Terracan,
Tuscon,
Sonata,
Elantra,
Accent



Hindustan Motors Ltd.

Incorporated at Port Okha in Gujarat, India (1942); Inception of Ambassador car, originally based on Morris Oxford (UK, 1948) (1957); Ambassador second version, Mark II, appears (1963); enters earthmoving equipment manufacture sector (1971); Mark III launched (1975); Company sold a part of assets to General Motors, for manufacture of Opel Astra range cars (1986); Collaboration with Isuzu Motor Company, Japan (1987);

begins the production of Road Trusted Vehicles (1997); Collaboration with OKA Motor Company, Australia; Commences Mitsubishi Lancer Car project (1998); Launch of Mitsubishi Pajero (in collaboration with Mitsubishi Motors, Japan) in India (2002); HM launches Mitsubishi Lancer Cedia (2006).

Popular Vehicles: Ambassador, Contessa, Avigo, Lancer, Cedia, Pajero

Hindustan Motors Manufacture passenger cars, RTVs, MUVs, trucks, etc.

BMW

Karl Rapp begins BMW as an aircraft engine shop in Munich named Rapp Motoren Werke (1913); Changes name to Bayerische Motoren Werke (BMW) (1917); BMW begins producing cars (1930s); 328-sports car launched (1936); sports sedans & touring cars produced (1960's); formed a joint venture with Rolls Royce PLC to produce aircraft engines (1990); 80% of Rover group acquired (1994); Takes over responsibility for Rolls Royce cars (2003).

Volvo

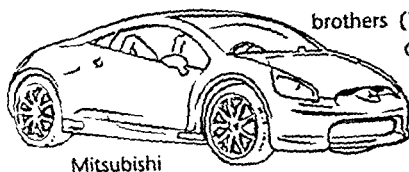
Volvo established at Gothenburg (1927); V 444 introduced (1944); Taxis, ambulances & trucks made (1940's-1950's); Volvo sport; Volvo Duett 445 introduced; involved with making military vehicles like 915 'Suggan' (1950's-1960's); P 1800 introduced (1960's-1970's); Volvo 144 introduced (1966); Volvo 164 E produced (1970's-1980's); presents safety vehicle (1972); Volvo 240 (1975); Volvo 343 (1976); 240 Turbo introduced; collaboration with Carrozzeria Bertone (1980-1990); Volvo GLT, 850 T-5R, S70 Sedan, S40, V70R AWD, S 80, etc. produced (1990-2000); The car company sold to American Ford Motor Company (1999); S60 introduced (2000); Volvo SUV XC90 released (2002).

Popular Models: Volvo 144, 145, 240, 343, S60

Chevrolet

1911 Chevrolet Motor Company is incorporated by Louis C. Durant

"Classic Six" launched General Motors the operations of the company First Chevrolet



Mitsubishi

brothers (1980); agreement with Chrysler (1987); Countach model launched (1990); Diablo launched (1991); Complete takeover of the company, by the

old (1918); Chevrolet Impala introduced (1958); Introduction of Light Utility (1972); Toyota & GM sign an agreement under which GM build right-hand drive Chevrolet Cavaliers in the US (1993).

Popular Models: Chevrolet Optra, Tavera, Ater, Aveo

Lamborghini

under-Ferruccio Lamborghini. Starts producing tractors, in Italy (1948); opens a car company (1963); Sells 51% of the company to Ferruccio Rossetti (1972); 49% sold to E. Leimer (1974); company sold to Mimran

shareholders of Lamborghini & Audi (1998); Popular models: Diablo, Murcielago, Countach, Jalpa.

Toyota Motor Company

Toyota Motor Company established in Japan (1937); First small car (SA MODEL) launched (1947); Production of vehicles outside Japan begun (1959); Toyota produces more than 4.5 million vehicles per year; Toyota Kirloskar Motor - is a joint venture between Kirloskar group & Toyota Motor Co.

Popular Models: Camry, Corolla, Innova, Prado

Compiled by Divya Warrier

American English

British English ... American English

Alsatian German shepherd
autumn fall
bag sack
Barrister lawyer
biscuit cookie
by-law ordinance
car boot trunk
car park parking lot
cashier teller
chemist's shop drug store
coriander cilantro
crisps chips
crossroads intersection
cupboard closet
current account checking account
curtains drapes
dialing code area code
dustbin garbage pail
evening classes night school
frying pan skillet
gear lever gear shift
handbag pocketbook, purse
housewife housemaker
influenza gripe

jam jelly
jug pitcher
lift elevator
lorry truck
maize corn
nappy diaper
pavement sidewalk
petrol gas
petrol station filling station
post code zip code
queue line
reverse the charges call collect
rubbish garbage
single (ticket) one-way (ticket)
sweets candy
tap faucet
telephone box phone booth
toilet (domestic) restroom
timetable schedule
torch flashlight
tram streetcar
trousers pants
undertaker mortician
waistcoat vest
wallet billfold
windscreen windshield

Quotations for all Occasions

Adlai Steevson: There are no gains without pains.

Albert Camus: The soul of a murderer is blind.

Aldo Leopold: Conservation is a state of harmony between men and land.

Aldous Huxley: There is only one corner of the universe you can be certain of improving, and that's your own self.

Alexander Pope: A little learning is a dangerous thing.

Alexander Solzhenitsyn: 1. Literature ... becomes the living memory of a nation; 2. A great writer is, so to speak, a second government in his country. And for that reason no regime has ever loved great writers, only minor ones.

Aesop: 1. United we stand, divided we fall; 2. No act of kindness, no matter how small, is ever wasted.

Alfred Adler: It is easier to fight for one's principles than to live up to them.

Alfred, Lord Tennyson: 1. The old order changeth, yielding place to new; 2. And God fulfills Himself in many ways; 3. Lest one good custom should corrupt the world.

Ambrose Bierce: Admiration is our polite recognition of another's resemblance to ourselves.

Anonymous: It is a beggar's pride that he is not a thief.

Antoine De Saint-Exupery: War is not an adventure. It is a disease.

Arthur Schopenhauer: To marry is to halve your rights and double your duties.

Bal Gangadhar Tilak: A house consists of rooms, but a room does not mean a house.

Benjamin Disraeli: 1. Justice is truth in action; 2. There are three kinds of lies - lies, damned lies, and statistics.

Benjamin Franklin: 1. No nation was ever ruined by trade; 2. Success has ruined many a man; 3. Time is money; 4. There never was a good war or a bad peace; 5. Early to bed and early to rise, makes a man healthy, wealthy and wise; 6. Laziness travels so slowly that poverty soon overtakes him; 7. A single man ... is an incomplete animal. He resembles the odd half of a pair of scissors.

B.F. Skinner: Education is what survives when what has been learnt has been forgotten.

B.R. Ambedkar: Self-respect is a most vital factor in life. Without it man is a mere cipher.

Carl Sandburg: The greatest cunning is to have none at all.

Cervantes: Time ripens all things. No man's born wise.

Charles De Gaulle: How can you be expected to govern a country that has two hundred and forty-six kinds of cheese?

Christopher North: Laws were made to be broken.

Daniel Boorstin: A sign of a celebrity is often that his name is worth more than his services.

Don Marouls: 1. A pessimist is a person who has had to listen to too many optimists; 2. An optimist is a guy that never has had much experience.

Edgar Watson Howe: Half the promises, people say, are never kept.

Edna St. Vincent Millay: Childhood is the kingdom where no one dies.

Elmer Davis: The Republic was not established by cowards; and cowards will not preserve it.

Eric Hoffer: We run fastest and farthest when we run from ourselves.

Erich Segal: Love means never having to say you're sorry.

Euripides: The first requisite to happiness is to be born in a famous city.

Franklin D. Roosevelt: 1. The nation that destroys its soil destroys itself; 2. Physical strength can never permanently withstand the impact of spiritual force.

Frank Lloyd Wright: An expert is a man who has stopped thinking he knows.

Frederic Bastiat: Everyone wants to live at the expense of the State. They forget that the State lives at the expense of everyone.

Friedrich Nietzsche: The love of truth has its reward in heaven and even on earth.

George Bernard Shaw: 1. Hell is full of musical amateurs; 2. Property is organized robbery; 3. Assassination is the extreme form of censorship; 4. Democracy substitutes election by the incompetent many for appointment by the corrupt few; 5. My way of joking is to tell the truth; 6. A life spent in making mistakes is not only more honorable but more useful than a life spent doing nothing.

George De Nerval: Each flower is a soul opening out to nature.

George Elliot: The happiest women, like the happiest nations, have no history.

George Orwell: 1. All animals are equal, but some animals are more equal than others; 2. If liberty means anything at all, it means the right to tell people what they do not want to hear.

George Santayana: 1. Words are weapons, and it is dangerous ... to borrow them from the arsenal of the enemy; 2. Our dignity is not in what we do but what we understand. The whole world is doing things.

Gertrude Stein: A rose is a rose is a rose.

Germaine De Stael: Love is the history of a woman's life; it is an episode in man's.

Germaine Greer: Freud is the father of psychoanalysis. It has no mother.

Girish Karnad: A man must commit a crime at least once in his life-time. Only then will his virtue be recognized.

Goethe: I call architecture frozen music.

Golda Meir: I must govern the clock, not be governed by it.

G.K. Chesterton: 1. A good novel tells us the truth about its hero; but a bad novel tells us the truth about its author; 2. Angels can fly because they take themselves lightly.

Gustave Flaubert: A man is a critic when he cannot be an artist, in the same way that a man becomes an informer when he cannot be a soldier.

Harper Lee: The one thing that doesn't abide by majority rule is a person's conscience.

Harry S. Truman: If you can't stand the heat, get out of the kitchen.

H. Gordon Selfridge: The customer is always right.

Henry James: Art is a jealous mistress.

Henry J. Kaiser: Problems are only opportunities in work clothes.

Henry Wadsworth Longfellow: Music is the universal language of mankind - poetry their universal pastime and delight.

Heraclitus: You can't step twice into the same river.

Herbert Spencer: Education has for its object the formation of character.

Herm Albright: A positive attitude may not solve all your problems, but it will annoy enough people to make it worth the effort.

Horace: Who has self-confidence will lead the rest.

Issac Goldberg: Diplomacy is to do and say the nastiest thing in the nicest way.

James Branch Cabell: The optimist proclaims that we live in the best of all possible worlds, the pessimist fears this is true.

Jawaharlal Nehru: 1. The basic fact of today is the tremendous pace of change in human life; 2. Democracy and socialism are means to an end, not the end itself; 3. Who lives if India dies? Who dies if India lives?; 4. What is history, indeed, but a record of change?; 5. Poverty anywhere is a danger to prosperity everywhere.

Jean Anouilh: Every man thinks God is on his side. The rich and powerful know he is.

Jean Jacques Rousseau: Man was born free and everywhere he is in chains.

Jean Paul Sartre: Once you hear the details of a victory, it is hard to distinguish it from a defeat.

Jeremy Bentham: The greatest happiness of the greatest number is the foundation of morals and legislations.

John F. Kennedy: 1. Let us never negotiate out of fear, but let us never fear to negotiate; 2. When written in Chinese, the word crisis is composed of two characters. One represents danger and the other represents opportunity.

John Keats: A thing of beauty is a joy for ever: Its loveliness increases; it will never pass into nothingness.

John Locke: A sound mind in a sound body is a short but full description of a happy state in this world.

John Ruskin: 1. Remember that the most beautiful things in the world are the most useless: peacocks and lilies, for instance; 2. There is really no such thing as bad weather, only different kinds of good weather.

John Stuart Mill: All good things which exist are the fruit of originality.

John Wesley: Cleanliness is indeed next to godliness.

Jonathan Kozol: Pick battles big enough to matter, small enough to win.

Jonathan Swift: 1. We have just enough religion to make us hate, but not enough to make us love one another; 2. Vision is the art of seeing things invisible.

Joyce Kilmer: I think that I shall never see A poem lovely as a tree.

J.R.D. Tata: To be a leader you have got to lead human beings with affection.

Karl Marx: From each according to his abilities, and to each according to his needs.

King Baudouin I: It takes twenty years or more of peace to make a man: it takes only twenty seconds of war to destroy him.

La Bruyere: Life is a tragedy for those who feel, and a comedy for those who think.

La Rochefoucauld: We promise according to our hopes and perform according to our fears.

Lord Byron: There is no instinct like that of the heart.

Louis XVIII: Punctuality is the politeness of kings.

Lucretius: What is food to one is to another bitter poison.

Ludwig Wittgenstein: If people never did silly things nothing intelligent would ever get done.

Mae West: I generally avoid temptation unless I can't resist it.

Margaret Chase Smith: When people keep telling you that you can't do a thing, you kind of like to try it.

Margaret Hungerford: Beauty is in the eye of the beholder.

Margaret Mead: Women want mediocre men, and men are working hard to be as mediocre as possible.

Martha Graham: Dance is the hidden language of the soul.

Menander: Marriage, to tell the truth, is an evil, but it is a necessary evil.

Molly Ivins: I believe that ignorance is the root of all evil. And that no one knows the truth.

Montaigne: It (marriage) is like a cage; one sees the birds outside desperate to get in, and those inside desperate to get out.

Moliere: 1. Men are all alike in their promises. It is only in their deeds that they differ; 2. Things are only worth what you make them worth; 3. I prefer an accommodating vice to an obstinate virtue.

Mrinal Pande: 1. Sometimes a quarrel between the husband and the wife benefits the servants vastly; 2. My diaries have always been my friends. The written word is so much more constant than human beings. Honest, too.

Muriel Spark: Being over seventy is like being engaged in a war. All our friends are going or gone and we survive in the dead and dying as a field.

Napoleon Bonaparte: A leader is a dealer in hope.

Norman Douglas: You can tell the ideals of a nation by its advertisements.

Oliver Goldsmith: 1. The first blow is half the battle; 2. I love everything that's old: old times, old manners, old books, old wines.

Oliver Wendell Holmes: The mode by which the inevitable comes to pass is effort.

Oscar Wilde: 1. There is no such thing as a moral or an immoral book. Books are well written, or badly written; 2. A man cannot be too careful in the choice of his enemies.

Pascal: If the nose of Cleopatra had been a little shorter, the whole face of the world would have been changed.

Percy Bysshe Shelley: 1. Poetry is the record of the best and happiest moments of the happiest and best minds; 2. If winter comes, can spring be far behind?; 3. The wise want love; and those who love want wisdom.

Pliny The Elder: No one is wise at all times.

Plato: Of all the animals, the boy is the most unmanageable.

Rabindranath Tagore: 1. The butterfly counts not months but moments, and has time enough; 2. I leave no trace of wings in the air but I am glad I had my flight.

Ralph Waldo Emerson: 1. Nothing great was ever achieved without enthusiasm; 2. Every hero becomes a bore at last; 3. A sufficient measure of civilization is the influence of good women.

Rene Descartes: 1. Reading all the good books is like a conversation with the finest men of past centuries; 2. I think therefore I am.

Richard Steele: Reading is to the mind what exercise is to the body.

Robert Louis Stevenson: To travel hopefully is better than to arrive.

Rudyard Kipling: 1. He travels fastest who travels alone; 2. More men are killed by overwork than the importance of the world justifies.

Samuel Beckett: We are all born mad. Some remain so.

Samuel Butler: A hen is only an egg's way of making another egg.

Any fool can tell the truth, but it requires a man of some sense to know how to lie well.

Samuel Johnson: 1. No man but a block-head ever wrote, except for money; 2. Language is the dress of thought.

Shakespeare: 1. There is a tide in the affairs of men. Which, taken at the flood, leads on to fortune; Omitted, all the voyage of their life is bound in shallows and in miseries; 2. Cowards die many times before their deaths; The valiant never taste of death but once; 3. Uneasy lies the head that wears a crown; 4. Neither a borrower nor a lender be; 5. Sweet are the uses of adversity; 6. Brevity is the soul of wit; 7. The devil can cite Scripture for his purpose.

Shankaracharya: 1. The eye sees all, but the mind shows us what we want to see; 2. The wealthy come to fear even their sons.

This is the way it is everywhere.

Simone De Beauvoir: One is not born a woman, one becomes one.

Sir Henry Wotton: An ambassador is an honest man sent to lie abroad for the good of his country.

Sir Walter A. Raleigh: In an examination those who do not wish to know ask questions of those who cannot tell.

Sir William Hamilton: On earth there is nothing great but man; in man there is nothing great but mind.

Sophocles: One word frees us of all the weight and pain of life: That word is love.

Susan B. Anthony: Woman must not depend upon the protection of man, but must be taught to protect herself.

Swami Chinmayananda: The eye sees all, but the mind shows us what we want to see.

Sydney Harris: Nobody can be so amusingly arrogant as a young man who has just discovered an old idea and thinks it is his own.

Theodore Roosevelt: There is a homely adage which runs: "Speak softly and carry a big stick; you will go far".

Thomas Alva Edison: *There is no substitute for hard work.*

Thomas Carlyle: 1. *The history of the world is but the biography of great men;* 2. *Work is the grand cure of all the maladies and miseries that ever beset mankind.*

Thomas Paine-: *My country is the world, and my religion is to do good.*

Thomas A Kempis: *It is much safer to obey than to rule.*

Thoreau: *Rather than love, than money, than fame, give me truth.*

Tiberius: *To be a good shepherd is to shear the flock, not skin it!*

Vandana Shiva: *The nexus between modern science and violence is obvious from the fact that 80 percent of all scientific research is devoted to the war industry and is frankly aimed at large-scale violence.*

Victor Hugo: *Youth, even in its sorrows, has a brilliance of its own.*

W.H.Auden: *No hero is mortal till he dies.*

Will Rogers: 1. *Everything is funny as long as it happens to somebody else;* 2. *Rumour travels faster, but it don't stay put as long as truth.*

William Cowper : *Variety's the very spice of life, That gives it all its flavor.*

William Hazlitt: 1. *If you think you can win, you can win. Faith is necessary to victory;* 2. *Women never reason, and therefore they are (comparatively) seldom wrong.*

Wilson Mizner: *Be nice to people on your way up because you'll need them on your way down.*

W.R. Wallace: *The hand that rocks the cradle. Is the hand that rules the world.*

W. Somerset Maugham: *People ask you for criticism, but they only want praise; Old age has its pleasures, which, though [different, are not less than the pleasures of youth.*

Wilson Mizner: *If you steal from one author it's plagiarism; if you steal from many it's research.*

Last Words

Socrates (Philosopher): *Give the boys a holiday*

Herbert Asquith (British Politician) : *I want to live because there are a few things I want to do*

Anne Boleyn (Queen consort) : *The executioner is, I believe, very expert; and my neck is very slender.*

Pythagoras (Geek mathematician): *Wait till I have finished my problem*

Buddha (Prince Gautama Siddhartha): *Decay is inherent in all component things.*

Domitian (Roman emperor) : *I am still alive!*

Catherine of Aragon (Henry VIII's first wife) : *Lord, into thy hands I commend my spirit.*

Charlemagne (King of the Franks) : *Lord, into thy hands I commend my spirit.*

Charles Darwin (English naturalist) : *I am not in the least afraid to die.*

Christopher Columbus (Italian explorer) : *Lord, into thy hands I commend my spirit.*

Elizabeth I (Queen of England) : *All my possessions for a moment of time.*

FDR Roosevelt (US president): *I have a terrific headache.*

Franz Schubert (Composer): *Here, here is my end.*

George Sanders (British film star) : *I am leaving you with your worries, good luck.*

George V

• Empire?

- Georges Clemenceau** (French Premier) : *I wish to be buried standing - facing Germany*
- George Cuvier** (French Naturalist) : *Nurse, it was I that discovered that leeches had red blood.*
- Hamlet** (Shakespearean character): *The rest is silence.*
- Henry Thoreau** (American essayist) : *I leave this world without a regret.*
- Humphrey Bogart** (Film actor) : *I should never have switched from scotch to Martinis.*
- Julius Caesar** (Roman statesman): *Et tu, Brute*
- Karl Marx** (Philosopher): *Last words are for fools who haven't said enough.*
- Katherine Mansfield** (Writer): *I love the rain, I want the feeling of it on my face.*
- Lady Jane Grey** (English queen) : *Lord, into thy hands I commend my spirit.*
- Lewis Carroll** (Author) : *Take away those pillows, I shall need them no more .*
- Lord George Byron**(English Poet) : *Now I shall go to sleep.*
- Lord George Byron** (English poet) : *I must sleep now.*
- Louis XIV** (French king): *Why weep you? Did you think I would live for ever? I thought dying was harder.*
- Nancy Astor** (British politician) : *Am I dying, or is this my birthday?*
- Napoleon 1** (French emperor): *France ! Army! Head of the army! Josephine!*
- Niccolo Machiavelli** (Italian statesman): *I love my country more than my soul.*
- Noel Coward** (British playwright): *Goodnight my darlings, I'll see you tomorrow.*
- Oscar Wilde** (Dramatist): *I am dying as I have lived: beyond my means.*
- Pablo Picasso**?(Spanish artist): *Drink to me.*
- Sir Walter Scott** (British novelist) : *God bless you all, I feel myself again.*
- Thomas Alva Edison**(American inventor): *It is very beautiful over there.*
- Thomas Carlyle** (Historian and essayist) : *So this is death, well....*
- Vespasian** (Roman emperor) : *I suppose I am now becoming a God.*
- Victoria**(British queen): *Oh that peace may come.*
- Vittorio Alfieri** (Italian poet) : *Clasp my hand dear friend, I am dying.*
- Voltaire** (French author and philosopher): *Do let me die in peace.*
- William Somerset Maugham** (British writer): *Dying is a very dull, dreary affair. My advice to you is to have nothing whatever to do with it.*

First Lines of Shakespeare's Selected Plays

- Richard III:** Now is the winter of our discontent.
- Romeo and Juliet:** Two households, both alike in dignity in fair Verona
- Twelfth Night:** If music be the food of love, play on.
- All's Well That Ends Well:** In delivering my son from me I bury a second husband.
- Henry VIII (All Is True):** I come no more to make you laugh.
- Julius Caesar:** Hence, home, you idle creatures, get you home.
- Hamlet:** Who's there?
- Othello:** Tush, never tell me!
- Richard II:** Old John of Gaunt, time-honoured Lancaster.

Closing Words of Famous Books

Asimov, Issac: *I Robot* She died last month the age of Eighty Two.

Austen Jane: *Pride and Prejudice.* And they ere both ever sensible of the warmest gratitude towards the persons who, by bringing er into Derbyshire, had been the means of uniting them.

Bronte, Charlotte: *Jane Eyre* Amen; even o come, Lord Jesus.

Bronte Charlotte: *The Professor* Papa, Come !

Carroll, Lewis: *Alice's Adventures in Wonderland.* And how she would feel with all their simple sorrows, and find a pleasure in all their simple joys, remembering her own child-life, and the happy summer days.

Cervantes, Miguel de: *Don Quixote.* Farewell.

Clarke, Arthur C: *2001* But he would think of something.

Dickens, Charles: *Great Expectations* And had given her a heart to understand what my heart used to be.

Dickens, Charles: *Oliver Twist.* These, and a thousand looks and smiles, and turns of thought and speech- I would fain recall them every one.

Dostoevsky, Fyodor: *Crime and Punishment.* That might be the subject of a new story, but our present story is ended.

Heller, Joseph: *Catch-22.* The knife came down missing him by inches, and he took off.

Milton, John: *On His Blindness.* They also serve who only stand and wait.

Mitchell, Margaret: *Gone With the Wind.* After all, Tomorrow is another day.

Colours

Alabaster	: White
Amber	: Yellow
Argent	: Silver
Carmine	: Red (crimson)
Carnation	: Rosy Pink
Chocolate	: Brown
Cinnamon	: Yellow-Brown
Cochineal	: Scarlet
Eboy	: Brownish-Black
Elephant	: Grey
Emerald	: Green
Hazel	: Reddish-Brown
Honey	: Yellow
Indigo	: Violet Blue

Ivory	: Creamy-White
Juplter	: Blue
Khaki	: Brownish-Yellow
Lake	: Crimson
Lilac	: Pinkish-Violet
Lilly	: White
Magenta	: Mauve (mauvish-crimson)
Moon	: White
Olive	: Greyish-Green
Pillar-box	: Bright-Red
Primrose	: Pale Yellow
Sapphire	: Blue
Straw	: Pale Yellow
Teak	: Reddish-Brown
Topaz	: Yellow
Vermillion	: Red
Violet	: Blush-Purple

Words from Numbers

1st footer	: the first person to enter a house in the New Year
1st lady	: wife of the President of the US or the Chief Executive of a state
1st night	: the first night of a performance
1st-string player	: the most skilled player
1st water	: the highest quality, purest lustre, of diamonds and pearls
1ner	: an expert, a unique person or thing
1ne-horse town	: a small, old fashioned and boring town
1ne-liner	: a short joke, a funny remark
1ne- night stand	: an occasion / person that you have sex with only once
1ook after number one	: to look after oneself and not worry about others.
1econd banana	: a person in a subservient position
1ay second fiddle	: to be of secondary importance, one that plays a supporting part
1econd sight	: a gift of prophetic vision, intuition
1econd-string	: a substitute player, used when somebody else is not available
1econd wind	: recovery of breath or renewal of energy in prolonged exertion
1wo-faced	: double-dealing, false
1o two-time	: to deceive somebody, to have a secret relationship with someone who is not your regular partner.
1wo-way street	: A situation which depends on the co-operation of two people
1hird degree	: the use of exhaustive questioning by the police to extort a confession or information from a criminal or a witness
1hirdsman	: a mediator
1hird World	: the poor, undeveloped countries of Africa and Asia
1hree- ring circus	: a confused situation or place due to too much activity
1hree-line whip	: a short, written order to MPs and MLAs about when and how to vote
1ourth dimension	: time
1ourth Estate	: the press, others being the Clergy, the Lords, and the Common
1our-eyes	: one who wears glasses
1our-flusher	: someone who cheats others
1our-letter word	: a rude and offensive word
1ifth column	: a group of people who work secretly for the enemy
1ifth wheel	: one who is superfluous, unnecessary or burdensome
1igh five	: the action of hitting the inside of somebody's open hand with your own above your heads to celebrate a victory or as a greeting

ke five	: to stop working for a few minutes
sense	: intuition, the ability to know things without using the five senses
es and sevens	: in utter confusion or disorder
venth heaven	: to be supremely happy
n year itch	: the desire for extra marital sex, which some people have, as they feel less satisfied with their spouses.
nd the eight ball	: in a highly disadvantageous or dangerous position
loud nine	: to be extremely happy
day's wonder	: something that causes a great sensation only for a few days
sed (up) to the nines	: wearing the best or most formal clothes
to one chance	: very probably
en a penny	: a dime a dozen, to be very common, not unusual
strike	: a stroke of great success, a very profitable bargain.
enth hour	: at the last possible moment, just in time
nineteen to the dozen	: to talk very quickly and without stopping
ty something	: someone in his 30s who is educated, rich and well placed
y winks	: a short sleep, esp. after dinner
fifty-fifty	: share the cost of something equally
e in a thousand	: a perfect wife
y-four-thousand-	
ar question	: a hard question to answer, the supreme or crucial question
k like a million dollars	: to look very attractive
-ditch effort	: a final, desperate attempt
somebody's last legs	: to be very ill, likely to die soon
t straw that breaks	
he camel's back	: extreme limit of endurance
t word, the	: the best, the most modern of its kind

Foreign Words and Phrases

a carte: each dish priced separately.
 a mode: according to custom or fashion.
 priori: from cause to effect.
 initio: from the beginning.
 hoc: for the particular end or purpose at hand.
 infinitum: endless.

ad nauseam: to a sick ending degree.
 al fresco: in the open air.
 Alma Mater: applied to former school, university, or college.
 ante bellum: before the war.
 apropos: to the point
 au pair: home-help
 aux: till we

avant-garde: progressive or radical artists and thinkers.
 baksheesh: gratuity or tip.
 bête noire: a thing or person viewed with particular dislike.
 batik: cloth dyeing method using wax, the cloth itself.
 bête noire: a bugbear, pet aversion.
 blitzkrieg: intense military attack
 bon appetit: good appetite.
 bona fide: with good faith.
 bonhomie: good-nature.
 bourgeois: middle-class person.
 carte blanche: full discretionary power.
 cause celebre: a notorious incident.
 caveat emptor: let the buyer beware.
 c'est la vie: that's life.
 ceteris paribus: other things being equal.
 chutzpah: amazing nerve bordering on arrogance.
 corrigenda: things to be corrected.
 coup de grace: the final blow.
 coup d'état: forceful over-throw of a government.
 crème de la crème: the best of the best.
 cum laude/magna cum laude/summa cum laude: with praise or honor; with great praise or honor; with the highest praise or honor.
 curriculum vitae: course of life, resume.
 dacha: Russian country villa.
 de facto: in fact.
 de jure: determined by law, as opposed to de facto.
 de rigueur: necessary according to convention.
 déjà vu: the sensation that something happening has happened before.
 detente: an easing or relaxation of strained relations.
 e pluribus unum: one out of many
 emeritus: honourably retired.
 eminence grise: one who wields power behind the scenes.
 en masse: in a large body.

enfant terrible: one whose unconventional behavior causes embarrassment.
 ergo: therefore.
 esprit de corps: group spirit; feeling of camaraderie.
 eureka: I have found it.
 ex officio: by virtue of his office
 ex post facto: an explanation or regulation concocted after the event.
 fait accompli: thing already done.
 fatwa: a legal decision.
 faux pas: social blunder, indiscretion.
 glasnost: openness.
 habeas corpus: a writ to produce a prisoner before a court.
 haiku: amusement verse.
 hajj: pilgrimage.
 halal: cooked according to Muslim law.
 haute couture: high fashion.
 haute cuisine: high-class cooking.
 hoi polloi: the masses.
 homme d'esprit: man of wit or genius.
 ibidem: in the same place.
 id est: that is.
 in camera: in secret.
 in extremis: at the point of death.
 in loco parentis: in place of a parent.
 in memoriam: in memory of.
 in pace: in peace.
 in situ: in the original arrangement.
 in toto: totally.
 in vitro: in a test tube.
 inter alia: among other things.
 ipso facto: by the fact itself.
 in usu: in use.
 je ne sais quoi: I don't know what; the little something that eludes description.
 jihad: a Muslim holy war.
 joie de vivre: joy of living.
 Junker: class of prussian land-owning aristocracy.
 jus civile: the civil law.
 kamikaze: Japanese suicide pilots in WWII.
 kibbutz: Jewish community in Israel.
 laissez-faire: unrestricted commerce.

laus deo: praise to God.
locus sigilli: the place of the seal.
lycee: in France, a state secondary school.
magnum opus: a great work of art or literature.
manu propria: with one's own hand.
mea culpa: by my own fault.
memoriter: by rote.
meshugga: crazy.
mirabile dictu: wonderful to relate.
modus operandi: method of working.
noblesse oblige: obligation of nobility or privileged to be honourable.
noblesse oblige: the obligation of nobility to help the less fortunate.
nom de plume: pen-name.
non compos mentis: out of control of the mind; insane.
non ens: nonentity.
non liquet: it is not clear.
nostro periculo: at our own risk.
nota bene: note well.
nouveau riche: pejorative for recent rich who spend money conspicuously.
ora pro nobis: pray for us.
origo mali: origin of evil.
pace tua: by your leave.
pari passu: with equal pace; together.
pars pro toto: the part for the whole.
parvenu: an upstart or social climber.
passim: every where; throughout.
pax in bello: peace in war.
per centum: by the hundred.
per se: in itself.
perestroika: restructuring.
persona non grata: unacceptable person.
per viam: by the way of.
petit bourgeois: lower middle-class.
pince-nez: spectacles without ear-pieces.
post meridiem: after midday.
post-mortem: after death; autopsy; analysis after event.
post obitum: after death.
prima donna: leading female operatic star; temperamental person.
primae viae: the first passages.

prima facie: at first sight.
pro tempore: for the time being.
quaere: query; inquiry.
quasi: as if; in a manner.
que sera sera: whatever will be, will be.
quid pro quo: one thing for another.
quid faciendum?: what is to be done?
quoad hoc: to this extent.
quod vide (q.v.): which see.
quondam: former.
raison d'être: reason for being.
resurgam: i shall rise again.
savoir-faire: dexterity in social and practical affairs.
sayonara: goodbye.
semper fidelis: always faithful.
sensu bono: in a good sense.
shlemiel: an unlucky bungling person.
sic: bracketed insert in a text to indicate questionable word is correct.
sine die: without a fixed date.
sine prole: without offspring.
sine qua non: an essential condition or requirement.
sputnik: unmanned artificial earth satellite.
status quo: existing order of things.
sub judice: under consideration of a judge.
table d'hôte: fixed-price meal with set courses.
tabula rasa: a blank tablet.
terra firma: solid ground.
tete-beche: double-headed stamp.
tour de force: feat accomplished through great skill.
ultra vires: beyond the powers of.
una voce: with one voice.
vade in pace: go in peace.
vale: farewell.
verbatim: word for word.
videlicet: namely.
vis-a-vis: compared with.
viva voce: orally.
vox populi: voice of the people.
Wunderkind: a highly talented child.
Zeitgeist: spirit of the times.

Food Donation in India-2005

	Voluntary	Replacement	Total Donors	Voluntary Percentage	Replacement Percentage
Andaman & Nicobar	2,340,517	2,170,520	4,511,037	51.88	48.12
Assam	2,877	1,029	3,906	73.66	26.34
Bihar	189,127	183,978	373,105	50.69	49.31
Chandigarh	1,342	144	1,486	90.31	9.69
Chhattisgarh	32,333	39,945	71,178	45.43	54.57
Dadra & Nagar Haveli	12,100	35,522	47,622	25.41	74.69
Delhi	39,144	14,994	54,138	72.30	27.70
Goa	8,004	19,941	27,945	28.64	71.36
Gujarat	2,218	0	2,218	100.00	0.00
Haryana	74,619	212,615	287,234	25.98	74.02
Himachal Pradesh	4,231	4,045	8,276	51.12	48.88
Jammu & Kashmir	392,250	223,249	615,499	63.72	36.27
Jharkhand	40,707	84,522	125,229	32.51	67.49
Karnataka	9,680	5,710	15,390	62.90	37.10
Kerala	7,861	30,917	38,778	20.27	79.73
Madhya Pradesh	15,993	44,679	60,672	26.36	73.64
Maharashtra	184,796	171,860	356,656	51.81	48.19
Manipur	64,838	96,198	161,036	40.26	59.74
Meghalaya	66,430	108,176	174,606	38.05	61.95
Mizoram	278,46	116,432	394,868	70.51	29.48
Nagaland	1,454	13,277	14,731	9.87	90.13
Orissa	327	2,847	3,174	10.30	89.70
Pondicherry	7,277	4,964	12,241	59.45	40.55
Rajasthan	583	1,089	1,672	34.87	65.13
Sikkim	84,964	71,229	156,193	54.40	45.60
Tamil Nadu	5,780	7,043	12,823	45.08	54.92
Tripura	35,780	167,545	203,325	17.60	82.40
Uttar Pradesh	35,258	118,004	153,262	23.01	76.99
Uttaranchal	363	714	1,077	33.70	66.30
West Bengal	210,591	54,025	264,616	79.58	20.42
	12,070	5,104	17,174	70.28	29.72
	74,503	237,315	311,818	23.89	76.11
	4,043	25,228	29,271	13.81	86.19
	440,538	69,280	509,818		

Source: NACO

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Source: NACO

Awards & Honours

Padma Awards

Padma Vibhushan (9): Adoor Gopalakrishnan (Art, Kerala); C.R. Krishnaswamy Rao (Civil Services, Tamil Nadu); Charles Correa (Science and Engineering, Maharashtra); Mahasveta Devi (Literature and Education, West Bengal); Nirmala Deshpande (Social



Mahasveta Devi

Work, Delhi); Dr. Norman E. Borlaug (Science and Engineering, Mexico); Prof. Obaid Siddiqui (Science and Engineering, Karnataka); Prof. Prakash Narain Tandon (Medicine, Delhi); Just. V.N. Khare (Public Affairs, Uttar Pradesh).

Padma Bhushan

(30): A.K. Ilangal (Art, Maharashtra); Ustad Abdul Halim Jaffer Khan (Art, Maharashtra); Deepak Parekh (Trade and Industry, Maharashtra); Ms. Devaki Jain (Social Work, Karnataka); Ms. Dinesh Nandini Dalmia (Literature and Education, Czech Republic); Ganga Prasad Birla (Social Work, West Bengal); Ustad Ghulam Mustafa Khan (Art, Maharashtra); Gregory Maximovich Bongard-Levin (Literature and Education, Russia); Dr. Gunter Kruger (Posthumous) (Trade and Industry, Maharashtra); Hira Lal Sibal (Public Affairs, Chandigarh); Dr. Jaiveer Agarwal (Medicine, Tamil Nadu); Air Commodore Jasjit Singh (De-



V. Santha



Nandan M. Nilekani

fence Services, Haryana); Prof. K.G. Subramanyam (Art, West Bengal); Kamleshwar Prasad Saxena (Literature and Education, Delhi); Prof. (Dr.) Kewal Kishan Talwar (Medicine, Chandigarh); Konidala Chiranjeevi (Art, Andhra Pradesh); Kunnath Puthiyaveetil Padmanabhan Nambiar (Science and Engineering, Karnataka); Prof. Lokesh Chandra (Literature and Education, Delhi); Dr. Madhav Gadgil (Science and Engineering, Maharashtra); Prof. Moolamattom Varkey Pylee (Literature and Education, Kerala); Prof. N.S. Ramaswamy (Social Work, Karnataka); Nandan M. Nilekani (Science and Engineering, Karnataka); Smt. P. Leela (Posthumous) (Art,

Tamil Nadu); P.P. Rao (Public Affairs, Uttar Pradesh); P.S. Appu (Civil Service, Karnataka); Ramakanta Rath (Literature and Education, Orissa); S. Ramadorai (Trade and Industry, Maharashtra); Ustad Sabri Khan (Art, Delhi); Ms. Sai Paranjpye (Art, Maharashtra); Dr. (Smt.)

Shanno Khurana (Art, Delhi); Shashi Bhushan (Public Affairs, Delhi); Tarun Das (Trade and Industry, Haryana); Dr. (Smt.) V. Shanta (Medicine, Tamil Nadu); Prof. Vijay Shankar Vyas (Literature and Education,



Vijaypat

(Maharashtra); Dr. Vijay-pat Singhania (Sports, Maharashtra).

Padma Shri (57): Sheikh Abdul Rahman (in Abdullah Al-Mahmoud (Public Affairs, Qatar); Ms. Ajeet Cour (Literature and Education, Delhi); Dr. Anil Prakash Joshi (Social Work, Uttaranchal); Aribam Shyam Sharma (Art, Manipur); Bahadur Singh (Sports, Punjab); Dr. Shivaraghan Palaniappan (Medicine, Tamil Nadu); Billy Arjan Singh (Wildlife Conservation, Uttar Pradesh); Dr. Bonbehari Vishnu Nimbkar (Science and Engineering, Maharashtra); Dr. Devappagowda Chinnaiah (Medicine, Karnataka); Ms. Fatma Rafiq Zakaria



Sania Mirza

(Literature and Education, Maharashtra); Gayatri Sankaran (Art, Tamil Nadu); Dr. Ghanashyam Mishra (Medicine, Orissa); Prof. Hakim Syed Zillur Rehman (Medicine, Uttar Pradesh); Dr. Harbhajan Singh Rissam (Medicine, Delhi); Swami Hari Govind Maharaj (Art, Uttar Pradesh); Dr. Harsh Kumar Gupta (Science and Engineering, Andhra Pradesh); Dr. (Smt.) Ilana Citaristi (Art, Orissa); J.N. Chaudhry (Civil Services, Delhi); Prof. (Dr.) Kamal Kumar Sethi (Medicine, Delhi); Ms. Kanaka Srinivasan (Art, Delhi); Kashmiri Lal Zakir (Literature and Education, Chandigarh); Kavungal Chatunni Panicker (Art, Kerala); Dr. Lalitluangliana Khiangte (Literature and Education, Mizoram); Dr. Lothar Lutze (Literature and Education, Germany); Madhumita Bisht (Sports, Delhi); Madhuo Mudgal (Art, Delhi); Mangte Chungneijang Mary Kom (Sports, Manipur); Mehmood Dhaulpur (Art, Delhi); Dr. (Smt.) Mehmooda Ali Shah (Literature

and Education, Jammu & Kashmir); Melhupra Vero (Social Work, Nagaland); Prof. (Dr.) Mohan Kameswaran (Medicine, Tamil Nadu); Mohan Singh Gunjyal (Sports, Arunachal Pradesh); Mrinal Pande (Journalism, Delhi); Prof. Narendra Kumar (Science and



Sucheta Dalal

Engineering, Karnataka); P.S. Bedi (Social Work, Delhi); Pankaj Udhas (Art, Maharashtra); Prasad Sawkar (Art, Goa); Dr. R. Balasubramanian (Science and Engineering, Tamil Nadu); Rajendra Kumar Saboo (Social Work, Chandigarh); Ustad Rashid Khan (Art, West Bengal); Ms. Sania Mirza (Sports, Andhra Pradesh); Dr. Sanjeev Nagai (Medicine, Delhi); Dr. Seyed Ehtesham Hasnain (Science and Engineering, Andhra Pradesh); Ms. Shahnaz Husain (Trade and Industry, Delhi); Ms. Shobana Chandrakumar (Art, Tamil Nadu); Shree Lal Joshi (Art, Rajasthan); Guru Shyama Charan Pati (Art, Jharkhand); Prof. Sitanshu Yashaschandra (Literature and Education, Gujarat); Ms. Sucheta Dalal (Journalism, Maharashtra); Ms. Sudha Murthy (Social Work, Karnataka); Sister Sudha Varghese (Social Work, Bihar); Sugathakumari (Literature and



Shobana Chandrakumar

Education, Kerala); Suresh Krishna (Trade and Industry, Tamil Nadu); Surinder Kaur (Art, Haryana); Dr. Suwalal Chhaganmal Bafna (Social Work, Maharashtra); Dr. Swaminathan Sivaram (Science and Engineering, Maharashtra); Dr. Tehemton Erach Udwadia (Medicine, Maharashtra); Dr. (Smt.) Tsering Landol (Medicine, Jammu & Kashmir); Prof. (Dr.) Upendra Kaul (Medicine, Delhi); Smt. Vasundhara Komkali (Art, Madhya Pradesh); Dr.

ashodhar Mathpal (Art, Uttaranchal).

Kirti Chakra (Independence Day Presidential Awards): Major James Thomas of 10 Sikh Light Infantry and Fireman Vijay Pal Singh of U.P. (both posthumous)

Films

International

Oscar Awards: Best Picture: *Crash*; **Director:** Ang Lee for *Brokeback Mountain*; **Lead Actor:** Philip Seymour Hoffman for *Capote*; **Lead Actress:** Reese Witherspoon for *Walk the Line*; **Supporting Actor:** George Clooney for *Tyriana*; **Supporting Actress:** Rachel Weisz for *The Constant Gardener*; **Adapted Screenplay:** Larry McMurthy & Diana Ossana for *Brokeback*



Ang Lee

Mountain; **Original Screenplay:** Paul Haggis & Bobby Moresco for *Crash*; **Foreign Language:** South African film *Tsotsi* (Gavin Hood, Director); **Documentary Short:** *A Note of Triumph: The Golden Age of Norman Corwin*; **Documentary Feature:** George Clooney



Philip Seymour

March of the Penguins; **Original Score:** Gusriev for *Brokeback Mountain*; **Original Song:** 'It's Hard Out Here for a Pimp' from *Hustle & Flow* (Jordan Houston, Cedric Coleman and Paul Beauegard); **Animated Feature:** Nick Park

Bharat Ratna

The following are the recipients of Bharat Ratna so far. C. Rajagopalachari (1954); S. Radha krishnan (1954); C.V. Raman (1954); Jawaharlal Nehru (1955); Bhagwan Das (1955); M. Visweswariayya (1955), Govind Ballabh Pant (1957); D.K. Karve (1958); B.C. Roy (1961); P.D. Tandon (1961); Rajendra Prasad (1962); Zakir Hussain (1963); P.V. Kane (1963); Lal Bahadur Shastri (posthumous, 1966); Indira Gandhi (1971); V.V. Giri (1975); K. Kamaraj (posthumous 1976); Mother Teresa (1980); Vinoba Bhave (1983); 'Frontier Gandhi' Khan Abdul Ghafar Khan (1987); M.G. Ramachandran (posthumous, 1988), Dr. B.R. Ambedkar (posthumous, 1990); Dr. Nelson Mandela (1990); Rajiv Gandhi (posthumous, 1991); Sardar Vallabhai Patel (posthumous, 1991); Morarjee Desai (1991); J.R.D. Tata, Satyajit Ray, (posthumous), Maulana Abul Kalam Azad, (1992); Aruna Asaf Ali (posthumous); Gulzarilal Nanda (1997); APJ Abdul Kalam, M.S. Subbalakshmi, C.Subra- maniam (1998). Jaipra-kash Narayan (posthumous); Amartya Sen, Ravi Shankar, Gopinath Bordoloi (posthumous) (1999); Ustad Bismillah Khan and Lata Mankeshkar (2001).

and Steve Box for Wallace & Gromit for *Curse of the Were-Rabbit*; **Art Direction:** John Myhre & Gretchen Rau for *Memoirs of a Geisha*; **Cinematography:** Dion Beebe for *Memoirs of a Geisha*; **Costume Design:** Colleen Atwood for *Memoirs of a Geisha*;



Reese Witherspoon

Film Editing: Hughes Winborne for *Crash*; **Live Action Short Film:** Martin McDonagh for *Six Shooter*; **Makeup:** Howard Berger & Tami Lane for *The Chronicles of Narnia*; **Sound Mixing:** Christopher Boyes, Michael Semanick, Michael Hedges & Hammond Peek for *King Kong*; **Sound Editing:** Mike Hopkins, Ethan Vab der for *King Kong*; **Visual Effects:** Joe Letteri, Brian Van't Hul, Chrisitan Rivers & Richad Taylor for *King Kong*.

Best Script Award (Young Film Makers Film Festival, Toronto): Nine-year old Anstrul Khosla, producer & script writer for his documentary *Love Changes Everything*.

18th European Film Awards: French thriller *Cache (Hidden)* wins 5 awards including Best Film, Best Actor, Best Director, Lifetime achievement award to Sean Connery.

Turner Prize (Britain): Simon Starling for *'Shed boatshed'* £25,000.

Freedom Award (Broadcast Film Critics Association): George Clooney.

IFFK Awards: Best film - *Stolen Life* (Rs. 10 lakhs), Best director - Lu Chun (Rs. 3 lakhs).

63rd Golden Globes: *Brokeback Mountain* wins best dramatic film, best director (Ang Lee), best screenplay, best song awards; Best actress: Felicity Huffman (*Trans America*); Best actor: Philip Seynour (*Capote*).



Rani Mukherjee

National

Filmfare Awards: **Film:** *Black*; **Director:** Sanjay Leela Bhansali; **Actor:** Amitabh Bachchan (*Black*); **Actress:** Rani Mukherjee (*Black*); **Critic's Award for Best Film:** *Black*; **Critic's**

Award for Best

Actor : Amitabh Bachchan (*Black*); **Critic's Award for Best Actress:** Rani Mukherjee (*Black*); **Actor in Supporting Role:** Abhishek Bachchan (*Sarkar*); **Actress in Supporting Role:** Ayesha Kapoor (*Black*); **Actor**

In a Comic Role: Akshay Kumar (*Ga Masala*); **Best Actor in a Villainous Role:** Nana Patekar (*Apaharam*); **Playback Singer (Male):** Himesh Reshammi Aashiq Banaya Aapne (*Aashiq Banaya Aap*

Playback Singer (Female): Alisha Chinai-Kajra re (*Bunt Babli*); **Music Award:** Shankar-Ehsaan-Loy (*Bunt Babli*); **Lyricist :** Gulz Kajrate... (*Bunt Babli*); **but Male :** Shiney Ah (*Hazaaron Khwahishein Al*); **Debut Female:** Vidhya Ba (*Parineeta*); **R.D. Burm Award :** Shantanu Moil

Choreography: How: Rosemeyer (*Parineeta*); **Art Director:** Keshto Mondal, Tanushree Sarkar & Pradeep Sarkar (*Parineeta*); **Story :** Suc Mishra, Shiv Kumar Subramaniam & Ru Narain (*Hazaaron Khwahishein Al*); **Screenplay:** Nina Arora and Manoj Ty (*Page 3*); **Dialogue:** Prakash (*Apabaran*); **Background Score :** Mo (*Black*); **Editing:** Bela Sehgal (*Black*); **Cematography :** Ravi K. Dhandran (*Black*); **Action :** Allan Amin (*Dus*); **Sound Design :** Bishwadeep Chatterjee (*Parineeta*); **Lifetime Achievement Award:** Shaba Azmi.

Ashden Award (Green Oscar): Dr. Anand Karve of Pune. £30,000.



Akshay Kumar



Nana Patekar

Science & Technology

International

King Faisal International Prize, 2006:

S. Narasimhan of TIFR and Simon Kirwan Muldoon of UK. \$200,00.

First Prize in an International Space

Science Competition: Kamal Tripuraneni, Indian Student in Cambridge.

International Cosmos Prize, 2006:

Man Sukumar, Centre for Ecological Sciences IISc., Bangalore.

Science Spectrum Trailblazer Award

2006 (USA): Mala R. Chinoy, Indian Scien-

tional

Best Technology Laboratory 2005

Award (Mini. of S&T) : ICRISAT

Faraday Medal (Institution of Electrical Engineers): Azim Premji.

Dataquest IT. Person of the Year 2005: An Karnik.

First India Science Award: Prof. C.N.R. Rao, Rs. 25 lakhs.

L.B. Shastri National Award for Excellence in Public Administration and Management Sciences (L.B. Institute of Management): Dr. Naresh Treshan, Escorts Research Institute.

G.M. Modi Award for Innovative Science and technology: Kota Harinarayana.

Shanti Swarup Bhatnagar Prize 2006): Biological Sciences: Dr. Vinod

Khakuni & Dr. Rajesh Sudhir Gokhale • **Chemical Sciences:** Dr. Srinivasan Sampath

Dr. K. George Thomas • **Earth, Atmosphere, Ocean & Planetary Sciences:** Dr.

Mufran-Ullah Beig & Dr. Pulak Sengupta • **Medical Sciences:** Dr. Virender Singh

Angwan • **Physical Sciences:** Dr. Atish Abholkar & Dr. Sanjay Puri • **Mathematical Sciences:** Dr. Vikraman Balaji & Dr.

Pradranil Biswas • **Engineering Sciences:** Dr. Ashish Lele & Dr. Sanjay Mittal.

First Prize in an International Space Science Competition: Kamal Tripuraneni, Indian student in Cambridge.

Literature

International

British Book of the Year: J.K. Rowling's *Harry Potter and the Half Blood Prince*.

Nelly Sachs Prize (Germany): Israeli author Aharon Appelfield.

Whitebread Award for best novel: Ali Smith's *'The Accidental*.

Commonwealth Writers, Prize: Eurasia region: Zadie Smith's *'On Beauty*'.

Orange Prize:

Zadie Smith for her third novel *On Beauty* .£30,000.

Man Booker Prize, 2006: Kiran Desai, *The Inheritance of Loss*. £50,000.

(Winners 2004 & 2005: 2004 - Alan Hollinghurst *The Line of Beauty*; 2005 - John Banville *The Sea*)

National

Saraswathy Samman, 2005 (K.K. Birla Foundation) : K. Ayyappa Panicker, *'Ayyappa Panickarude Kritikal'*. Rs. 5 lakhs.

Sahitya Akademi Awards, 2005: 24 writers. Hindi: Shyam Joshi, *Kyap*; Malayalam: G.V. Kakkanadan, *Jappana Pukayila*; Telugu: Abduri Chayadevi, *Tana Margam*; Punjabi: Gurcharan Singh Bhullar, *Agnikalas*; Konkani: N. Shivdas, *Bhaangarsaall*; Oriya: Ramachandra Behera, *Gopapura*; Bodo: Mangalsingh Hazowary, *Jiuni Mwngthang*; *Bisombi Arw Aroj*; Gujarati: Suresh Dalal, *Akhand Zalar Vage*; Kashmiri: Hamidi Kashmiri, *Yath Miani Joye*; Sanskrit: Swami



J.K. Rowling

Rambhadracharya, *Sri Bhargava-Raghaviyam*; Sindhi: Dholan Rahi, Andhero Roshan Thiye; Tamil: G. Thilakavathi, *Kalmaram*; Kannada: Thaghavendra Patil, *Teru*; Nepali: Krishna Singh Moktan, *Jeevan Goreto Ma*; Assamese: Yeshe Dorje Thongchi, *Mouna Ounth Mukhar Hriday*; Urdu: Jabir Husain, *Ret Per Khema*.

Gyanpith, 2003: Vinda Karandikar, Marathi poet.

Sahitya Akademi Award: Arundhati Roy for her book *'The Algebra of Infinite Justice'* (award rejected by the author)

Music & Arts

International

Grammy Awards 2006

Record of the Year: *Boulevard of Broken Dreams*, Green Day; **Album of the Year:** *How to Dismantle an Atomic Bomb*, U2; **Song of the Year:** *Sometimes You can't Make it on Your Own*, U2; **Best New Artist:** John Legend; **Best Female Pop Vocal Performance:** *Since U Been Gone*, Kelly Clarkson; **Best Male Pop Vocal Performance:** *From the Bottom of My Heart*, Stevie Wonder; **Best Pop Performance By a Duo or Group With Vocal:** *This Love*, Maroon 5; **Best Pop Collaboration with Vocals:** *Feel Good Inc.*, Gorillaz Featuring De La Soul; **Best Pop Instrumental Performance:** Caravan, Les paul; **Pop Vocal Album:** *Breakaway*, Kelly Clarkson; **Best Dance Recording:** Galvanize, The Chemical Brothers Featuring Q-Tip; **Best Solo Rock Vocal Performance:** *Devils and Dust*, Bruce Springsteen; **Best Rock Performance By a Duo Or Group With Vocal:** *Sometimes You Can't Make it on Your Own*, U2; **Best Hard Rock Performance:** B.Y.O.B., System of a Down; **Best Metal Performance:** *Before I Forget*, Slipknot; **Best Rock Instrumental Performance:** 69 Freedom Special, Less Paul and Friends; **Best Rock Song:** *City of Blinding Lights*, U2; **Best Rock Album:** *How to Dismantle an Atomic Bomb*, U2.

Mercury Prize: The Arctic Monkeys, for the best British Album

National

Sangita Kalanidhi (Music Academy): T.N. Seshagopalan, Carnatic vocalist.

Rashtriya Kishore Kumar Samman (M.P. Govt.): Shyam Benegal. Rs. 100,000.

Kabir Samman (M.P. Govt.): Ashok Vajpayee.

Peace & Humanism

International

Pravasi Bharatiya Community Service Awards (GOP 10): Sudha Acharya, Dr. Ganesh Chand, Lord Diljit S. Rana, Dr. B.R. Shetty.

Olof Palme Prize: Aung San Suu Kyi. \$50,000.

Mother-Teresa International & Millennium Award 2005: Sheikh Hasina, former Bangladesh Prime Minister.

Gandhi International Peace Prize: Shabana Azmi.

Right Livelihood Award: Ruth Manorama (India), Daniel Ellsberg; A poetry festival in Medellin, Colombia. (2m. kronor)

Honorary Award: Chico Whitaker Ferreira (Brazil)

National

Lifetime Achievement Award (Institute of Defence Studies and Analysis): K. Subramanyam, defence analyst.

Communal Harmony Awards 2005: Hema Bharati (Assam) and the Ramakrishna Mission.

Innovation of India Awards: Kudumashree, Kerala Govts. State Poverty, Eradication Mission.

Rajiv Gandhi National Sadbhavana Award: Nirmala Deshpande, Gandhian. Rs. 250,000.

Indira Gandhi Award for National In-

tegration, 2005: Javed Akhtar. Rs. 1,51,000.

Media

International

Harry Chapin Media Awards, New York: Judges' prize to P.Sainath (*The Hindu*)
Journalism for Tolerance of the Year 2005: Dionne Bunsha.

Miscellaneous

International

World Press Freedom Prize: Mai Chidiac Lebanese TV journalist \$25,000.
Whitley Award (WWF-UK) : Suprabha Seshan. £30,000.
Sri Lanka Awards: Sri Lankabhimanys: Arthur C. Clarke; **Sri Lanka Ratna :** N. Ram.
Golden Globe Awards: Lifetime Achievement award to Sir Anthony Hopkins.
Miss World 2005: Miss Iceland Unnur Vilhjalms dottir, 1 runner-up : Miss Mexico Dagre Molina Lona; Second runner-up: Miss Puerto Rico Ingrid Marie rivera Santos.
Otto-Hahn Medal (Berlin): Boxing great Muhammad Ali.
Borlaug Award: Dr. R.S. Paroda. Rs.100,000.
Ludovic Trarieux Award (founded by European lawyers): Pervez Imroz, Kashmiri human rights activist.
World Entrepreneur of the Year (Ernst&Young): Bill Lynch, CEO of Imperial Holdings, S. Africa.
Miss Universe: Zuleyka Rivera Mendoza (Puerto Rico). **Runners-up:** Kurara Chibana (Japan) and Lauriane Gillieron (Switzerland).
Stockholm Junior Prize 2006 (Stockholm Water Foundation): Wang Ho Weng Jie and Xiao Yi from a Shanghai School, China.
UNESCO-Madanjeet Singh Prize, 2006: Veerasingham Anandasangaree, President, TULF. \$100,000.

Officer of the Legion of Honour (French Govt.): Anilish Bachchan

National

Karshakashri Award (Malayala Manorama): K.V. Cogi. Rs. 2 lakhs

Dr. B.C. Roy National Award : Dr. K.K. Aggarwal, Delhi, Dr.N.K. Pandey, Escorts, Faridabad.

Prize for Rural Communication (UNESCO): Malayala Manorama for its campaign Palathullu \$20,000.

Nanesh Samita Awards: Nanaji Deshmukh

World's 50 Most Powerful Businesswomen (Fortune Magazine) include: Kiran Mazumdar-Shaw (Biocon), Chanda Kochar (COI), Vidya Cribaria (Lungto group).

Prize for Best Water-Environment Friendly School: Kambaloor Govt. H.S., Kasargode (Rs.1,00,000)

All-India Management Association (AIMA) Life Time Achievement Award : Management: Mr.V. Krishnamurthy, Public Service; Mr.K.J. Rao; Tata Tea Corporate Leadership: Mr. K.V. Kamath

Entrepreneur of the Year (Ernst & Young): Kumar Mangalam Birla of Aditya Birla Group

Stars of Asia Award 2005 (Business Week Asia): Mani Shankar Aiyar, Petroleum minister.

P.C. Mahalanobis Birth Centenary Gold Medal: Prof. Sankar K. Pal, Dir. of ISI.

Order of the British Empire: Gurminder Chadha.

Magsaysay Award: 1.Ek Sonn Chan, Government Service (Cambodian); 2.Park Won Soon, Public Service (Korean); 3.Gawad Kalinga Community Development Foundation, Community Leadership (Philippines); 4.Meloto, Antonio, Community Leadership (Filipino); 5.Apostol, Eugenia Duran, Journalism, Literature and Creative Communication Arts (Filipino); 6. Rull, Son and International Under-19 athletes.

val, Emergent Leadership (In-

Attan Award: Khushwant

Prize, 2006

Andrew Fire and Craig Mello

Physics: John C. Mather and George F. Smoot (both US)

Chemistry: Roger Kornberg (US)

Economics: Dr. Edmund Phelps (US)

Literature: Orhan Pamuk (Turkey)

Peace: Muhammad Yunus (Bangladesh) and the Grameen Bank.

International Film Awards

Best Feature Film: Gold Medal / Swarna Kamal

Name of the Film	Language	Director
Chomana Dudi	Kannada	B.V. Karanth
Mrigaya	Hindi	Mrinal Sen
Ghatashraddha	Kannada	Girish Kasaravalli
No Award	-	-
Shodh	Hindi	Biplab Ray Chaudhuri
Akaler Sandhane	Bengali	Mrinal Sen
Dakhal	Bengali	Gautam Ghose
Chokh	Bengali	Utpalendu Chakraborty
Adi Sankaracharya	Sanskrit	G.V. Iyer
Damul	Hindi	Prakash Jha
Chidambaram	Malayalam	G. Aravindan
Tabarana Kathe	Kannada	Girish Kasaravalli
Halodhia Choraye Baodhan Khai	Assamese	Jahnu Barua
Piravi	Malayalam	Shaji N. Karun
Bagh Bahadur	Hindi	Buddhadeb Das Gupta
Marupakkam	Tamil	K.S. Sethumadhavan
Agantuk	Bengali	Satyajit Ray
Bhagavad Gita	Sanskrit	G.V. Iyer
Charachar	Bengali	Buddhadeb Das Gupta
Unishe April	Bengali	Rituparno Ghosh
Kathapurushan	Malayalam	Adoor Gopalakrishnan
Lal Darja	Bengali	Buddhadeb Das Gupta
Thai Saheb	Kannada	Girish Kasaravalli
Samar	Hindi	Shyam Benegal
Vanaprastham	Malayalam	Shaji N. Karun
Santham	Malayalam	Jayaraj
Dweepa	Kannada	Girish Kasaravalli
Mondo Meyer Upakhyam	Bengali	Buddhadeb Das Gupta

Year	Director	Best Director - Gold Medal	Film	Language
1975	Satyajit Ray		Jana Aranya	Bengali
1976	P. Lankesh		Pallavi	Kannada
1977	G. Aravindan		Kanchana Sita	Malayalam
1978	G. Aravindan		Thamp	Malayalam
1979	Mrinal Sen		Ek Din Pratidin	Bengali
1980	Mrinal Sen		Akaler Sandhane	Bengali
1981	Utpalendu Chakraborty		36-Chowringhee Lane	English
1982	Mrinal Sen		Chokh	Bengali
1983	Adoor Gopalakrishnan		Khandhar	Hindi
1984	Shyam Benegal		Mukhamukham	Malayalam
85	G. Aravindan		Trikal	Hindi
86	Adoor Gopalakrishnan		Oridathu	Malayalam
87	Shaji N. Karun		Anantharam	Malayalam
88	Adoor Gopalakrishnan		Piravi	Malayalam
89	Tapan Sinha		Mathilukal	Malayalam
90	Satyajit Ray		Ek Doctor Ki Maut	Bengali
91	Goutam Ghose		Agantuk	Bengali
92	T.V. Chandran		Padma Nadir Majhi	Bengali
93	Jahnu Barua		Ponthanmada	Malayalam
94	Saeed Akhtar Mirza		Hkhagoroloi Bahu Door	Assamese
95	Agathyan		Naseem	Hindi
96	Jayaraj		Kathalkottai	Tamil
97	Rajivnath		Kaliyattam	Malayalam
98	Buddhadeb Das Gupta		Janani	Malayalam
99	Rituparno Ghosh		Uttara	Bengali
00	B. Lenin		Utsab	Bengali
01	Apama Sen		Ooruku Nooruper	Tamil
02	Goutam Ghose		Mr & Mrs. Iyer	English
03	Bhddhadeb Das Gupta		Abar Aranye	Bengali
04			Swapner Din	Bengali

Year	Director	Best Actor	Film	Language
1975	V. Vasudeva Rao		Chomana Dudi	Kannada
1976	Utpalendu Chakraborty		Mrigaya	Hindi
1977	B. Mukherjee		Kodiyettam	Malayalam
1978	Farukh Iqbal		Parashuram	Bengali
1979	K. K. Nair		Sparsh	Hindi
1980	B. N. Sanyal		Oppol	Malayalam
1981	Shahidullah Khan		Aarohan	Hindi
1982	B. N. Sanyal		Moonnam Pirai	Tamil
1983	B. N. Sanyal		Arth Sathya	Hindi

7. Arvind Kejriwal, Emergent Leadership (Indian).

Punjab Pattan Award: Khushwant Singh.

Nobel Prize, 2006

Medicine: Andrew Fire and Craig Mello (both US)

Physics: John C. Mather and George F. Smoot (both US)

Chemistry: Roger Kornberg (US)

Economics: Dr. Edmund Phelps (US)

Literature: Orhan Pamuk (Turkey)

Peace: Muhammad Yunus (Bangladesh) and the Grameen Bank.

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1981	Dakhal	Bengali	Gautam Ghose
1982	Chokh	Bengali	Utpalendu Chakraborty
1983	Adi Sankaracharya	Sanskrit	G.V. Iyer
1984	Damul	Hindi	Prakash Jha
1985	Chidambaram	Malayalam	G. Aravindan
1986	Tabarana Kathe	Kannada	Girish Kasaravalli
1987	Halodhia Choraye Baodhan Khai	Assamese	Jahnu Barua
1988	Piravi	Malayalam	Shaji N. Karun
1989	Bagh Bahadur	Hindi	Buddhadeb Das Gupta
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1991	Agantuk	Bengali	Satyajit Ray
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2000	Santham	Malayalam	Jayaraj
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Biotechnology, Computer Science,
Cat. Sci. and Hotel Mgt.

PG Courses

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Applied Electronics, Biotechnology,
Computer Science, Biochemistry,
Bioinformatics, Industrial Biotechnology,
Software Systems (5 Yrs.)

M.Phil

Research Programmes

Ph.D.

Tamil, English, Maths, Microbiology,
Biotechnology, Management, Com. Scie.,
Biochemistry, Social Work, Chemistry,
Commerce, Physics.

Tamil, Management, Social Work, Chemistry,
Biochemistry, Microbiology, Biotechnology,
Commerce.

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B.E. Computer Science & Engineering
B.E. Electrical & Electronics Engineering
B.E. Electronics & Communication Engineering
B.Tech. Information Technology
MCA MBA

Courses

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Electrical & Electronics Engineering
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Automobile Engineering
Computer Engineering
Textile Technology
Civil Engineering

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Optional Subjects

Tamil, English, Mathematics, Commerce, Economics,
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B.Pharm. Degree Course

For Admissions Contact:-

Administrative Officer

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0422-2611146, 2611082, 2611479 Fax: 0422-2611043 Email: kasc@md5.vsnl.net.in www.karpagameducation.com

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Applications can be downloaded from our website

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4	Naseeruddin Shah	Paar	Hindi
5	Shashi Kapoor	New Delhi Times	Hindi
6	Charuhasan	Tabarana Kathe	Kannada
7	Kamalahasan	Nayakan	Tamil
8	Premji	Piravi	Malayalam
9	Mammootty	Mathilukal /	
		Oru Vadakkan Ceera Gatha	Malayalam
0	Amitabh Bachchan	Agnipath	Hindi
1	Mohanlal	Bharatham	Malayalam
2	Mithun Chakraborty	Tahader Katha	Bengali
3	Mammootty	Vidheyan/ Ponthanmada	Malayalam
4	Nana Patekar	Krantiveer	Hindi
5	Rajit Kapur	The Making of the Mahatma	English
6	Kamalahasan	Indian / Avai Shanmukhi	Tamil
7	1. Suresh Gopi	Kaliyattam	Malayalam
	2. Balachandra Menon	Samantharangal	Malayalam
8	1. Mammootty	Dr. Ambedkar	English
	2. Ajay Devgan	Zakhm	Hindi
9	Mohanlal	Vanaprastham	Malayalam
00	Anil Kapoor	Pukar	Hindi
01	Murali	Neythukaran	Malayalam
02	Ajay Devgan	Legend of Bhagat Singh	Hindi
03	Vikram	Pithamagan	Tamil
04	Saif Ali Khan	Hum Tum	Hindi

Records

Largest Aquarium: World's largest aquarium (Georgia Aquarium In Atlanta) opened on November 23. It is 500,000 sq.feet.

At 69,852' above sea level: Aviator-industrialist Vijaypat Singhania, on Nov. 26, 2005 broke Per Lindstrand's record of 64,997' above sea level by sailing at 69,852 on a hot air balloon, thus becoming the first man to sail at that height.

Largest Non-stop Flight : Boeing 777-200 LR worldliner set the record for largest nonstop flight by a commercial jet in Nov. 05 flying Hong Kong-London in 22 hrs, 43 min.

The Oldest: The oldest woman is Maria Esther Heredia Lecaro (Dec.05) of Ecua-

dor, 116. The oldest man is Eriliano Mercado Del Toro, 114 of Puerto Rico.

The Largest US Family: Vladimir and Zynaida Chernenko, the Werainian-American family in Sacramento has 17 children.

Record Price for Painting: A masterpiece by Paul Gauguin "Two Women" sold for £12.3 m, during an auction in February, '06 at Sotheby's.

Flying Record: Jet Airways set a new record by flying 36,406 passengers on Feb. 15, with a seat factor of 86 percent.

Mobile Subscriber Base: Airtel on Feb. 16 crossed two million customer mark in Delhi - the first Indian metro to have this subscriber base.

Costliest cruise ship: Finland's Aker

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989	Mammootty	Mathilukal /	
		Oru Vadakkan Ceera Gatha	Malayalam
990	Amitabh Bachchan	Agnipath	Hindi
991	Mohanlal	Bharatham	Malayalam
992	Mithun Chakraborty	Tahader Katha	Bengali
993	Mammootty	Vidheyan/ Ponthanmada	Malayalam
994	Nana Patekar	Krantiveer	Hindi
995	Rajit Kapur	The Making of the Mahatma	English
996	Kamalahasan	Indian / Avai Shanmukhi	Tamil
997	1. Suresh Gopi	Kaliyattam	Malayalam
	2. Balachandra Menon	Samantharanga	Malayalam
998	1. Mammootty	Dr. Ambedkar	English
	2. Ajay Devgan	Zakhm	Hindi
999	Mohanlal	Vanaprastham	Malayalam
2000	Anil Kapoor	Pukar	Hindi
2001	Murali	Neythukaran	Malayalam
2002	Ajay Devgan	Legend of Bhagat Singh	Hindi
2003	Vikram	Pithamagan	Tamil
2004	Saif Ali Khan	Hum Tum	Hindi

Records

Largest Aquarium: World's largest aquarium (Georgia Aquarium In Atlanta) opened on November 23. It is 500,000 sq. feet.

At 69,852' above sea level: Aviator-industrialist Vijaypat Singhania, on Nov. 26, 2005 broke Per Lindstrand's record of 64,997' above sea level by sailing at 69,852 on a hot air balloon, thus becoming the first man to sail at that height.

Largest Non-stop Flight : Boeing 777-200 LR worldliner set the record for largest nonstop flight by a commercial jet in Nov. 05 flying Hong Kong-London in 22 hrs, 43 min.

The Oldest: The oldest woman is Maria Esther Heredia Lecaro (Dec.05) of Ecua-

dor, 116. The oldest man is Eriliano Mercado Del Toro, 114 of Puerto Rico.

The Largest US Family: Vladimir and Zynaida Chernenko, the Werainian-American family in Sacramento has 17 children.

Record Price for Painting: A masterpiece by Paul Gauguin "Two Women" sold for £12.3 m, during an auction in February, '06 at Sotheby's.

Flying Record: Jet Airways set a new record by flying 36,406 passengers on Feb. 15, with a seat factor of 86 percent.

Mobile Subscriber Base: Airtel on Feb. 16 crossed two million customer mark in Delhi - the first Indian metro to have this subscriber base.

Costliest cruise ship: Finland's Aker

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Commerce.

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Yards will make a new generation cruise ship for Royal Caribbean International at a cost of EUR 900 m. by 2005 - the most expensive ship so far. The 220,000 GRT ship will take 5800-man years of work to complete.

Biggest Dosa: The 30-foot dosa made by chef Sahhan Singh and his 15 member team is the largest dosa in the world.

Longest non-stop flight: Adventurer Steve Fosset covered 42,467 km in about 76 hours.

Mother at 62: Janise Wulf, 62, of Reddubg, USA, gave birth to a 2.3 kg baby boy, the 12th child. Janise, blind since birth, is a grandma of 20 and great-grandma of 3 children.

World's Largest Rail: The first consignment of 260-metre Long rail, the longest produced anywhere, was flagged off from Bhilai Steel Plant in Feb. 06.

Indian Painting at \$1.47m: At Sotheby's auction, Syed Haider Raza's painting 'Tapovan' fetched \$1.47m, and Tyeb Mehta's *Falling Figure with Birds* \$1.24m.

Salary: A student of Indian School of Business, Hyderabad was offered a salary of Rs. 1.04 cr. by an Indian IT company, for an international position.

Oldest CEO: Jack A. Weil, 105, founder of Rockmount Ranch Wear is the oldest and longest serving CEO in the U.S.

Writing Exam at age 82: Collapudi Prabhavati of Eluru, A.P. wrote a degree exam-in B.R. Ambedkar University in April, 2006, at age 82, to become a lawyer.

Biggest Real Estate Deal: In Delhi's biggest real estate deal, a DLF Universal-Indiabulls joint venture bagged Rs.450.01 cr. bid for acquiring a 35.8 acre DDA land in south Delhi in Apr. 06.

Double Amputee's Everest Conquest: On May 16, New Zealand mountaineer Mark Inglis, who lost two legs in a climbing accident 24 years ago, reached the summit of

Everest, after 40 days of climbing.

Oldest Indian: Hizbib Miyan celebrated his 137th birthday in Jaipur.

21st Husband at Age 104: Wook Kundor, a 104-year-old Malaysian woman married a 33-year old Muhamad Noor Che Musa in May 2006. He is her 21st husband.

Fancy Number for Rs. 12.1 cr.: A special mobile number (6666666) was auctioned in Qatar on May 23, 2006 for 10m. riyals (Rs.12.1 cr.).

Record Price for a Vase: In May 06, Steve Wynn paid the world record price of \$10.1m. for a small beautiful copper red and white porcelain vase.

Record Price for Letters: A European collector paid \$750,000, a world record award, at a Paris auction in May, '06 for 26 letters from French philosopher Voltaire to Russian emperor Catherine the Great, dating from 1768 to '77.

Waterskiing at 22 months: Cole Marsolek of Menomonie, in U.S.A took up waterskiing on a training ski in July '06. Its age: 22 months.

A long Poem: A Frenchman displayed what he claimed the longest poem in Aug. 06; nearly 76000 verses on a roll of fabric that stretched to almost 1 km.

Longest Sari: Seematti brought out the longest silk sari of 1585 feet.

Record Price: F.N. Souza's 'Man and Woman' sold for \$1.36 m at Christies in Sept., '06.

Record Price for Atlas: The first atlas ever printed - the 1477 edition of Claudius Ptolemy atlas - was sold for £2.14m. at Sotheby's in Oct.06

A Woman Is the Wealthiest Chinese: Zhang Yin of Nin Dragons Paper is the richest person in China

Mother at 64: A 64-year-old Turk Memnune Tiryakigave birth to a baby boy in Oct. 06. She is the world's second oldest mother.

SPORTS ARENA

PART

10

IS TOURISM

Sanil P. Thomas

t of adventure, the challenge of
s and the thrill in conquering. This
s the young blood into adventure
new corporate culture expect you
e spirit of adventure, the love of a
nd wind in your sails.

r breed of young professionals, es-
h the I.T. industry and BPOs ensur-
ing generation have lots of money
have brought new hope to sports
any call centers are using adventure
am-building exercise.

re is there in air, water, snow and
can select the ideal one; less danger-
less adventuring, but one can start

ourism is fast catching on in India as
ow attached with adventure sports.
ectorate of Mountaineering and Al-
Manali, has been imparting train-
ous disciplines of adventure sports
.Every year the institute trains over
ns in mountaineering, skiing and
ts.

rie, Nainital, Haridwar, Rishikesh,
nikhat etc are famous for adventure
ourism.

pensive but slightly more painful way
your adrenaline kick is rock climb-
climbing is less dangerous. Trekking
amping form part of sports tourism.
s some of the most developed rock-
areas. The road from Delhi to
h is adjoined by places suitable for
ering. In Lado Sarai, Wellington Cres-
b etc. we can find rock climbing fa-

Maharashtra Tourism Development Corpo-
ration used to organise mountaineering and
rock climbing courses, based in Karla, a small
town in the Mumbai-Pune highway. Instruc-
tors from Nehru Institute of Mountaineering,
Uttarkashi sends instructors for three types of
courses.

All-Terrain-Bikes or mountain biking began
in the late 1970s when a bunch of cyclists in
California rode down the trails of Mount
Tamalpias. With so many hills and mountains
India can go high as far as mountain biking is
concerned.

Flying is an addiction. Once tried, it never
leaves the blood stream. Flying boosts confi-
dence and relieves stress as well. Many
corporates are approaching flying clubs as it is
an excellent distress.

The spirit of aimindedness was brought to
the old Bombay Presidency by Sir Victor Sassoon
Bart in 1928, when the Bombay Flying Club
was incorporated as a limited company.

National Paragliding Academy in Pune was
established in 1980. Paragliding is the aero sport
freak's dream come true. Security clearance for
air space is the only problem. One needs to be
at least 50-100 k.m. away from major cities with
airports.

The restrictions and regulations, proximity
to airports, heavy national and international
traffic, cut down flying hours severely. But the
spirit of adventure remains, and young men
and women flock to the flying clubs. Flying has
a great future in rural areas and even suburbs.

Ballooning is not a sport for the young alone.
One can practise it at the age of 50 or even
above. Rather, it is not a dangerous sport. One

can call it a lazy cruise in the sky but there is adventure.

Vishwa Bandhu Gupta, who was secretary, Balloon Club of India was instrumental in making the sport popular in our country. In 1988, he started the cross India Balloon Expedition.

Delhi and many other cities organize balloon melas. The crowd participation was overwhelming. Balloon can stay up in the air from two to 20 hours. Most balloonists prefer to fly at a height of 50 to 150 metres over the countryside.

Paragliding is a mix of parachuting and hang-gliding and is considered to be one of the easier aero sports to learn.

Of late, a defence lab in Bangalore has made a new kit with protective equipment and clothing that makes parajumping from a height of 30,00 feet easy.

In India, mountains stretch across 2,500 miles from the icy Ladakh to the remote Arunachal. Holidaying in zero temperature itself is a thrill. Skiing adds adventure to the holiday. The winter delights of the icy surfaces are little exploited.

Skiing started as a sport in India as early as in 1927 when the Ski Club of India was established in Gulmarg, 50 kms from Srinagar. Later Kurfi 12 kms and Narkanda 40 kms. away from Shimla became popular Ski resorts. Manali in Himachal and the slopes in Patalsu, Kotta, Rohtang are also known Ski centers.

Over 6000 tourists, rather adventure sports lovers, come to Rishikesh every year. Rafting season starts in the second week of September. Uttaranchal government's decision to shift from an earlier rent-based regime to a profit sharing programme itself discloses the heavy rush. Many rafting companies were in existence since 1980s.

In 1986, the Indian Rivers Runners Association (IRRA) set up a camp to promote white water sports at Brahmipuri in Rishikesh. Fishis confronted this as it was their place. Things have come a long way since then. The White Water

Challenge in Rishikesh is popular in and outside India now.

Rafting is finally being seen as an Indian sport. Pune's Swastik Co. introduced the first Indian built raft. The Slalom Event, which features obstacles and penalty points, is also well established in India. Canoeing and Kayaking are also introduced in white-water.

The term white water refers to the white foam which forms on the top of the water. It is made when the water hits rocks on its race downhill. Steep inclines of the riverbed result in the formation of rapids and whirlpools. Undercurrents and white water caused by roots of big trees are also there in India's rivers.

Avinash Kohli president of IRRA and India's Kayaking and Canoeing Association, is the pioneer of the water sport in India.

Rapids make rafting adventurous and rafters rate rapids according to their risk. The most difficult being six which is almost suicidal to attempt.

Wind surfing has grown with spectacular popularity in a very short span of time. And there are so many sailing clubs in India to help. Though many are in the defence sector, private clubs have also come up in a big way. Sailing is now easily accessible to the public.

The first Yacht race in India was held in Bombay in February, 1830. Hence we have a rich tradition. Further, we have an abundant and beautiful coastline. Those who like speed can look for water skiing and even para sailing.

Zorbing (rolling the 16 ft. diameter sphere with two people inside from a height), hot air ballooning, bungee jumping etc. are not that dangerous and can be tried in rural areas.

There is a lot more scope for sports tourism. Different states and even local bodies can come out with plans as per the facilities available in their villages. The hilly areas, the forest areas, the streams, the rocks, and canyons and plateaus can all be used to its advantage.

Sports Miscellany

12th Major for Tiger Woods

Tiger Woods claimed his 12th Major golf crown by clinching the U.S. PGA championship (August, 2006). Woods has won 12 Majors by age 30 compared to eight by Jack Nicklaus.

He earned his third PGA championship. He drew ever closer to Jack Nicklaus's record of 18 Majors. He surpassed Walter Hagens with 11. Earlier he tied with Hagen while winning the British Open. Though Tiger missed the cut at the US Open, he became the first player in history to go consecutive years winning at least two Majors.

Nicklaus compiled his 18 Majors in 25 years. Woods is at a dozen after only 10 years. It was the fifth Major that Woods won by at least five shots. He won his 12 Majors by a combined 56 shots, while Nicklaus won his 18 Majors in 44 shots.

Khel Ratna for Pankaj Advani

Ace cueist Pankaj Advani was conferred with the Rajiv Gandhi Khel Ratna Award, the highest individual sporting honour in India. The award carries a cash prize of Rs. 5 lakh, a scroll of honour and a medal.



Pankaj Advani

The Arjuna Awards (Rs. 3 lakh, a statuette and a scroll of honour), the Dhyan Chand Awards for life time achievement in sports and games (Rs. 3 lakh, plaque and a scroll of

honour and the Dronacharya Awards (Rs. 3 lakh, a plaque and a scroll of honour) were won by the following stars.

The list of awardees:

Rajiv Gandhi Khel Ratna award: Pankaj Advani (billiards & snooker).

Dhyan Chand awards: Uday K. Prabhu (athletics), Commander Nandy Singh (hockey), Harish Chandra M Birajdar (wrestling).

Dronacharya awards: Captain M Venu (boxing), Balwan Singh (kabaddi), Maha Singh Rao (wrestling), Ismail Baig (rowing).

Arjuna awards: Tarundeep Rai (archery), Dola Banerjee (archery), Manjit Kaur (athletics), Apama Popat (badminton), Anuja Prakash Thakur (billiards & snooker), Akhil Kumar (boxing), Surya Shekhar Ganguly (chess), Anju Jain (cricket), Viren Rasquinha (hockey), Ramesh Kumar (kabaddi), Gagan Narang (shooting), Shikha Tandon (swimming), Soumyadeep Roy (table tennis), Sushil Kumar (wrestling), Rajender Singh Rahelu (physically handicapped).

Federer equals

Borg's record

Wimbledon champion Roger Federer (Switzerland) equalled Bjorn Borg's record of 41 consecutive victories on grass with a 6-0, 6-7, 6-2 victory over Czech Tomas Berdych in the final



Roger Federer

the Halle Open (June 2006).

Sweden's Borg, a five times Wimbledon champion, set the open era record for consecutive wins on grass from 1976 to 1981.

Youngest Snooker World Champion

Wales' Michael White beat Scotland's Mark King 10-5 in the IBSF World Snooker Grand Prix. White has become the youngest World Snooker Champion at the age of 14 years and 9 months.

Michael White, the winner of the 2005 English Under 21 and 2006 Welsh Nationals, is listed in the Guinness Book of records as the youngest cueist to have made a century in competition at age nine.

Snooker genius Jimmy White won the World Championship whilst just short of his 18th birthday.

Yana completes triple

Yana Isinbayeva (Russia) won the women's pole vault at the European athletics championships too (Goteborg, Sweden). She cleared 4.80 m. for a meet record. She had won the Olympic and World Championship title earlier. She holds the world record (4.91 m).

Win in a row

Rajesh Choudhary won the National Laser title for the 15th year in a row. He won the radial and standard rigs class.

Win for ICC

Justice Sonu of Africa re-elected Alison Mani International Cricket Council President. The 56-year-old lawyer is the first man to fill the post, and the



Rajesh Choudhary

first from Africa. He will be president (took over in July 2006) for 2 to 3 years. He was president of the United Cricket Board of South Africa for 3 years until 2003.

9th title and record for Aparna

Aparna Popat, the 27 year old star claimed a record ninth successive National women's badminton title. She beat Saina Nehwal (PSPB) 13-11, 11-3. She eclipsed the record of eight successive titles by Madhumita Bist.

Prakash Padukone is the only other player with nine successive singles titles (1971-79).

Anand in the 2800 club

Viswanathan Anand joined the ELO 2800 club. He got it at the Corus Super Grand Master tournament. Anand began with the event with 2792 points and gained 11 points here (April, 2006).

World champion Veselin Topalov took the first rank ahead of Anando Veselin (2804 points) - Anand finished with 2803 points. Krishnan Sasikiran (2691) and P. Harikrishna (2680) are the other Indians with great ELO ratings.

Chitra becomes World Champion

Chitra Magimsaraj (Karnataka) emerged champion in the World ladies billiards at Cambridge (April 2006). Chitra beat England's Emma Bonny 193-164 in the final. 32 year old Chitra lost in the quarterfinal of the world snooker.

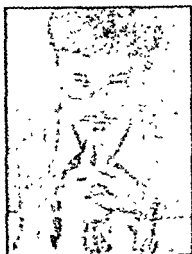
Chitra has become the second Indian woman to have won the world title. Anuja Thakur was the first.

14th Grandmaster from India

Neelotpal Das of Bengal became the 14th and latest Grandmaster from India, when he earned his third and final Grandmaster norm at the 29th San Sebastian International Open tournament in Spain (April, 2006).

ast year at the sort International Open and at the Benasque International Open, respectively. He became Grandmaster immediately because he has an ELO rating of 2514.

Das is the fourth Grandmaster from Bengal behind Dibyender Barua, Surya Sekhar Ganguly and Sandipan Chanda.



Neelotpal Das

Sethi wins his 8th World title

Geet Sethi (India) regained the World professional billiards title defeating England's Lee Lagan by over 1000 points. Sethi lost the title in 1998. This is his fifth professional world title after having won it four times in the 1990s. Sethi has eight world titles altogether.



Geet Sethi

He won the amateur world title three times.

World snooker team title for India

India won the seniors title at the IBSF inaugural world snooker team championship in Sam Jose, USA (August 2006). India

beat New Zealand 6-5 in the final. Geet Sethi, Devendra Joshy and B.V.S. Murthy played for India.

In the men's final India 'A' lost to England 3-8. Pankaj Advani, Manan Chandra and Yasin Merchant represented India 'A'.

Negi becomes youngest Grand Master

Parimarjan Negi, the Delhi boy has become the youngest Grand Master in the world and second youngest in the history of the game.

On July 1, 2006, Negi made his third and final Grandmaster norm in the Chelyabinsk

Region Superfinal chess tournament in Satka.

Negi became Grandmaster at the age of 13 years and 142 days. The earlier record was with Norway's Magnus Carlsen (13 year and 147 days on April 26, 2004).

The youngest ever Grandmaster title stands with Sergey Karjakin of Ukraine. He made it in 2002 at the age of 12 years and seven months.

India's chess prodigy Parimarjan Negi became the youngest International Master. He

achieved it at the age of 12 (January 2006) in the Hastings Masters tournament. He broke the record held by England's David Howell since Feb. 2004.

In the aforesaid tournament, Negi became India's youngest



Parimarjan Negi

Grandmaster norm holder at the age of 12 years and 330 days. He broke Koneru Humpy's record of 14 years and 84 days, set in 2001.

Armenia, Ukraine win Chess Olympiad

In the Chess Olympiad (Turin, June 2006) Indian men team finished 30th and women's 12th. There were 148 teams in the fray.

The first four places are as follows:

men: 1. Armenia; 2. China; 3. USA; 4. Israel.

women: 1. Ukraine; 2. Russia; 3. China; 4.

USA.

Anand wins

Viswanathan Anand beat Tejmour Radjabov to win the chess classic at Mainz (Aug. 2006) for the sixth time.

Earlier, Anand won the 1st Ciudad de Villarrobledo rapid chess title with 7.5 pts from 9 rounds at Villarrobledo, Spain.

Three Gold medals for India in World shooting

Abhinav Bindra clinched the world shooting championship gold, the first ever for the

country, in air rifle (Zagreb, July 2006). He won with a total 699.1 points Alen George Moldoveanu of Russia finished 2nd (698.3 pts).

Manavjit Singh Sandhu won the gold in trap (143 out of 150).

Navnath Farthate won the junior men's air rifle gold. He shot 596 out of 600, a solitary point ahead of local lad Petar Gorsa in a field of 81 shooters.

Sonia Rai became the first Indian pistol shooter ever to win a World Cup medal. She won the bronze (482.2 pts) in air pistol in the World Cup (Brazil, May 2006). She is the wife



Abhinav Bindra

of former national skeet champion Amardeep Singh Rai.

Sunil Kumar wins world cadet title

India's Sunil Kumar won the 50 kg category world cadet boxing championship at Istanbul (Aug. 2006). He beat Agayev Ilkine of Azerbaijan 13-8.

Wimbledon still stands for men

Wimbledon tennis stuck to its rigid policy regarding prize money to men and women champions. Now Wimbledon remains the only Grand Slam not to offer its men's and women's champions equal prize money. In the 2006 tournament, the prize money for men's winner is £ 6,55,000 compared to the £ 6,25,000 first prize for the women.

Only in 2006, French Open organisers

announced equal prize money for men and women champions. The other two grand slam events - the Australian Open and US Open have been long time supporters of equal prize money.

Nadal

Rafeel Nadal (Spain) completed 54 consecutive victories on clay court to eclipse Guillermo Vilas's record of 53, established 29 years back. Later Nadal extended his winning streak to 60 with the French Open final victory.

Laureus Awards

Swiss tennis star Roger Federer was named the Laureus World sportsman of the year (2006) for the 2nd straight year. Croatian skier Janica Kostelic won the women's award.

Martina Hingis took the Laureus 'Comeback of the year' award and Rafael Nadal was named 'Newcomer of the year'.

Athletics

China tops

China topped the medals tally in the 12th Asian junior athletics held in Macau (July 2006) with 23 gold, 11 silver and 5 bronze. Japan came second (25 medals, including 6 gold) and Qatar third with 7 medals.

India were placed 14th, poorest ever showing with just one silver and four bronzes.

66 Poles

Michael Schumacher created World Record in the number of pole positions achieved. He had his 66th pole while finishing top in the pre-competition race in San Marino Grand Prix in Imola (April, 2006). The previous record was with the late Ayerton Senna of Brazil. Senna had 65 poles to his credit.

Football

Barcelona (Spain) beat Arsenal (England) 2-1 to bag the UEFA champi-

football league title (Paris, May, 2006). Barcelona won the title early 1992.

In the UEFA cup final (Eindhoven, Netherlands, May 2006) Spanish club Seville beat Middlesbrough.

Power lifting

Indian powerlifters reaped a rich harvest of medals in the 18th Asian powerlifting championship (Teaback city, Korea, May 2006).

India won a whopping 22 gold, 19 silver and eight bronze medals. Also, they won men's team and overall titles.

Leev in \$ million club

Leev Milkha Singh became the third Indian to cross the coveted \$ one million mark in career earnings on the Asian Golf Tour. The first two were Arjun Atwal and Jyoti Chhabra.

Leev is the 10th player to join the \$ million club on Asian Tour.

India wins Philippines open

Saina Nehwal became the first Indian woman to win a four star (Grand Prix) badminton tournament. She defeated Julia Xian Wong of Malaysia 21-15, 22-20 in the women's singles final of the Philippines Open (May 2006).

Netherlands, Germany Champions

Netherlands won the champions trophy in hockey beating Germany 2-1. (Terresa, July 2006). In women's tournament, Germany beat China in the final 3-2 (Amsterdam, July 2006).

India third

Netherlands beat Australia 6-2 to bag the Sultan Shah hockey tournament (Kuala Lumpur, June 2006). India beat New Zealand 1-0 to clinch 3rd spot.

Medal count (2006)

Commonwealth Games Medals Tally

Nation	G	S	B	T
Australia	84	69	68	221
England	36	40	34	110
Canada	26	29	31	86
India	22	17	11	50
South Africa	12	13	13	38
Scotland	11	7	11	29
Jamaica	10	4	8	22
Malaysia	7	12	10	29
New Zealand	6	12	13	31
Kenya	6	5	7	18
Singapore	5	6	7	18
Nigeria	4	6	7	17
Wales	3	5	11	19
Cyprus	3	1	2	6
Ghana	2	0	1	3

SAF Games Colombo

Medals Tally

Nation	Gold	Silver	Bronze
India	118	69	47
Pakistan	43	44	71
Sri Lanka	37	63	78
Nepal	9	15	31
Afghanistan	6	7	18
Bangladesh	3	15	32
Bhutan	0	3	10
Maldives	0	0	0

Germany wins World Cup Hockey

Germany beat Olympic Champions Australia 4-3 in a repeat of the 2000 final to retain the hockey World Cup, (Monchengladbach, September 2006). Though the hosts took the lead, Australia, who won their only World Cup in 1986 in London equalised and went into the lead. But Germany made an excellent comeback to clinch the title.

In the third place play-off Spain beat South Korea 3-2. Pakistan lost 0-1 to England to

finish sixth.

India beat South Africa 1-0 to finish last but one. Exactly an eleventh place in the 11th edition of the World Cup of 12 teams.

In the women's World Cup (Madrid, October 2006) Netherlands beat Australia 3-1 in the final. It was Netherlands' first World title since 1990. Argentina beat Spain (5-0) to finish third. India earned 11th place.

World Cup hockey men-standings

1 st Germany	7 th Netherlands
2 nd Australia	8 th New Zealand
3 rd Spain	9 th Japan
4 th South Korea	10 th Argentina
5 th England	11 th India
6 th Pakistan	12 th South Africa

Santhosh wins Silver

Santhosh Singh of India made history by winning a silver medal at the World Boxing Championship held in Agadir, Morocco. Santhosh was beaten in the final of the 54 kg category by Ouatini Nehdi of Morocco 39-23.

This was the first time ever that an Indian made it to the finals of the world boxing meet.

Powell, Wariner, Sanya share Jackpot

Jamaican sprinter Asafa Powell and American 400m runners Jeremy Wariner and Sanya Richards shared the Golden League jackpot for a perfect six wins in the six meet series.

Each took home \$2,50,000. Powell clocked up his record 11th sub-10 sec. race in 2006 at Berlin (September). Wariner wrapped up his perfect six from six in the men's 400m and Sanya won the series of women 400m races.

Kenenisa Bekele, Irving Saladino and Tirunesh Dibaba won the share of a second pot of \$5,00,000 for athletes having won five out of six events.

Grand Slam title for Paes

The sixth-seeded Indo-Czech pair, Leander

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044-28

Paes' Grand Slam titles

Year	Championships	Event	Partner	Score
1999	French Open	Men's doubles	Mahesh Bhupathi (Ind)	6-2, 7-5
1999	Wimbledon	Men's doubles	Mahesh Bhupathi (Ind)	6-7, 6-3, 6-4, 7-6
1999	Wimbledon	Mixed doubles	Lisa Raymond (USA)	6-4, 3-6, 6-3
2001	French Open	Men's doubles	Mahesh Bhupathi (Ind)	7-6, 6-3
2003	Australian Open	Mixed doubles	Martina Navratilova (USA)	6-4, 7-5
2003	Wimbledon	Mixed doubles	Martina Navratilova (USA)	6-3, 6-3
2006	US Open	Men's doubles	Martin Damm (Cze)	6-7, 6-4, 6-3

Paes and Martis Damm beat Belorussia's Max Mirnyi and Jonas Bjorkman 6-7, 6-4, 6-3 to clinch the U.S. Open tennis doubles title 2006. With this Paes has tested Grand Slam glory on seven occasions.

It took him closer to estranged partner Mahesh Bhupathi's Grand Slam tally of 10 title wins.

Europe win Ryder Cup

Europe beat U.S. 18.5 - 9.5 to win the Ryder Cup golf tournament (Streffan, September 2006) for an unprecedented third consecutive time.

India women win series

Indian women won the two Test cricket series 1-0 against England. In the 2nd Test held at Taunton, India led by Mithali Raj, beat England by 5 wickets. Jhulan Goswami got 10 wickets in the test. It was Indian Women's team's first Test Rubber in England.

Italy win World Cup

Italy won their fourth World Cup football title when they beat France 5-3 (1-1) in the final. Italians managed to break their shootout jinx by converting five out of five spot kicks.

Zinedine Zidane put France ahead in the 7th minute of a penalty kick. Materazzi's equalizer in the 19th minute gave impetus to the Italians. The French came back strongly in the second half but lost midfielder Patrick Vieira to a hamstring strain.

The final went into extra time for the fifth time.

But, Italy's victory was overshadowed by the sending off of Zidane nine minutes to the hooter for a head butt into the chest of Marco Materazzi.

Level 1-1 after 120 minutes of engaging football, it all got down to the missed penalty of David Trezeguet's - the only one missed. Italy beat France 5-3 in shootout. The Italians rose from ashes to become World Champions against all odds.

Germany finished third with a 3-1 victory over Portugal. The latest edition was in Germany (June-July 2006).

Argentina bowed to Germany in the quarter 3-5 (1-1). Brazil were beaten by France 1-0. Then it was all European semi final. Further, Portugal beat England in quarter in penalty shoot out).

147 goals were scored in 64 matches (there were 161 goals in 2002). Germany's Miloslav Klose won the golden boot with 5 goals. It was not all that smooth with 345 yellow cards and 28 red cards shown.

It was Franz Beckenbauer, the 60 year old, who won a world cup in 1974 as a player and coached the Germans to another title in 1990, who engineered the triumphant World Cup.

And it was the end of the road for greats like Luis Figo (Portugal), Oliver Kahn (Germany), Pedro Paulete (Portugal) to name a few. The semifinal was Figo's 127th cap for Portugal. German coach Juergen Klinsmann had dropped Kahn in favour of Jens Lehmann, but recalled him for the third place playoff which Germany won. Paulete played 88 times for his nation.

Commonwealth Games

India finished fourth in the overall medallist tally in the Commonwealth Games held in Melbourne (March 2006) with 22 gold, 17 silver and 11 bronze. Hosts Australia finished top with 221 medals including 84 gold, 69 silver and 68 bronze.

England came second with 110 medals (36,40,34) and Canada third with 86 medals (26, 29, 31).

A record 4,500 athletes from 71 nations took part in the 16 sports categories in the biggest Commonwealth Games yet staged.

22 Commonwealth Federations won at least one gold medal, including the Isle of Man and Papua and New Guinea.

The 19-year old Canadian, Alexandra Orlands swept six golds in rhythmic gymnastics and joined Australian swimming stars Ian Thorpe and Susie O'Neill, as well as compatriot and swimmer Graham Smith as the only athletes to win six golds at one Game.

Australian swimmer Libby Lenton won five golds but the David Dixon Award for the outstanding athlete went to Samareesh Jung of India who also had five golds. Australia's women turned the Aquatic Centre into a river of gold, winning 16 of 19 events.

It was Jamaican domination in sprints. The Kenyans dominated middle-distance races and the hosts won the bulk of the field events. Jamaica's world record holder Asafa Powell won the men's 100 metres.

Kunjurani Devi lifted the first gold of Melbourne 2006 in the 48 kg category, creating a Commonwealth Games record in clean and jerk by lifting 94 kg. Geeta Rani (75 kg. + category) Yumnam Renu Bala Chanu (58 kg) etc also won gold. India's lifters won 13 gold in Manchester. But the rules were changed. Now it allows only one medal in a category instead of separate

medals for snatch, clean and jerk and total lift.

The Indian sharp shooter Samareesh Jung's bold bid for a record-equalling six Commonwealth Games gold medals ended with a whimper after his gun jammed in the 25-metre std pistol event. Jung finished with 5 gold, one silver and a bronze.

India's Achanta Sharath Kamal beat Australia's William Henzell 11-5, 8-11, 5-11, 11-8, 11-8, 7-11, 11-8 to win gold in men's table tennis. Single Indian men's team beat Singapore 3-2 to clinch the gold. Their women counterparts took the bronze defeating Canada 3-2.

India's medal list is as follows:

Items	Gold	Silver	Bronze
Shooting	16	7	4
Weight lifting	3	5	1
Table Tennis	2	0	1
Boxing	1	2	2
Athletics	0	1	0
Badminton	0	0	2
Hockey	0	1	0

South Asian Games

India emerged atop the medal table with 118 gold, 69 silver and 47 bronze in the 10th edition of the South Asian Games held in Colombo (August 2006).

Kramnik is World Chess Champion

Russian Grandmaster Vladimir Kramnik overpowered Veselin Topalov of Bulgaria in a series of timed tie break matches to win the World Chess Championship (Elista, Russia, October 2006). Kramnik's victory was by a score of 8.5-7.5. Topalov resigned in the fourth 25 min tie-break match.

The Longest War

It was the longest and the bitterest ever war between Israel and the Arabs. For 34 days in July-August 2006, Israeli forces pounded Lebanon, destroying its bridges, roads and buildings and killing people in hundreds. Israel's declared objective was to crush the Lebanese militant group, Hizbullah, and free the two Israeli soldiers it had kidnapped on July 12. Israelis also had a debt to repay to Hizbullah for forcing them out of southern Lebanon in 2000 which they had occupied for 18 years. Hizbullah retaliated fiercely by sending rockets to northern Israel as far as Haifa, 100 kilometers from the Lebanese border, killing many people. In total More than 1000 Lebanese and 150 Israelis were killed and over one million people displaced.

The war was a test by fire for Ehud Olmert, Israel's inexperienced new prime minister. The conflict in fact started on June 25 when a group of the Palestinian militant movement Hamas tunneled into Israel, killed two Israeli soldiers and abducted a third. They offered to trade the soldier for Palestinian prisoners held in Israeli jails. Olmert refused and started pulverising Gaza by bombs and rockets, killing more than 100 persons, most of them civilians.

The official residence of the Palestinian prime minister and Hamas leader Ismael Haniye was destroyed in a rocket attack and eight ministers of his cabinet were abducted from the West Bank. International community did not raise a finger against the disproportionate use of force by Israel and the UN Security Council kept mum. The US president George Bush justified the Israel's action saying that it had a right to defend itself.

It was then the Hizbullah crossed the border from Lebanon from Israel, killed eight of its soldiers and kidnapped two others. They also wanted the release of Arab prisoners in Israeli jails in exchange of the soldiers. Israel responded by sending its air force planes to attack the Beirut international airport and other targets across Lebanon. The war inflicted enormous damage on Lebanon which had just started to re-emerge after 15 years of civil war that ended in 1990. A rocket attack on a multi-storied building in the town of Qana killed 65 civilians, most of them children. The UN officials said that a third of the casualties in the war were of children.

The ferocity of the attack shocked the world. It was thought that Israel was purposefully targeting civilians to focus domestic anger on Hizbullah which was also working as political party in the country, with 12 members in parliament and two in the cabinet of prime minister Fouad Siniora. But it did not turn out in that way. Hizbullah with its fierce resistance against the Israeli attack won the admiration of the Lebanese people. It also emerged with its standing on the Arab street enhanced while that of Israel's once feared military and its political leadership was considerably dented.

It was in mid-August, the UN Security Council unanimously passed a ceasefire resolution. It called for deploying some 15,000 Lebanese troops in southern Lebanon after the Israeli withdrawal. The Lebanese force will work in tandem with an expanded, 15,000 strong UN peace keeping force. The resolution also called for disarming the Hizbullah.

Though the war was primarily between Israel and Hizbullah, it was thought be a strategical duel between their respective mentors, the United States and Iran.

Olympics over the Years

776 BC : The first ancient Olympic Games;
AD 394 : Roman Emperor Theodosius I abolishes the Games; **1896, Athens** : The first modern Olympic Games. 14 countries represented; **1900, Paris** : 1319 men, 26 countries in 75 events. 11 women compete in lawn tennis and golf; **1904, St. Louis** : 13 countries; **1908, London** : Athletes march into the stadium behind their nations' flags; **1912, Stockholm** : Women compete in swimming; **1916** : Games cancelled due to World War I; **1920, Antwerp** : The Olympic Flag and the Olympic Oath introduced; **1924, Paris** : Games moved to Paris; **1928, Amsterdam** : The Olympic flame introduced. For the first time women compete in track and field events; **1932, Los Angeles** : At the victory ceremonies, the winners stand on a victory stand and the flag of the winner is raised. Official automatic timing and photo-finish camera introduced; **1936, Berlin** : Olympic torch relayed. Games televised. Entry of basketball; **1940, 1944** : Games called off due to World War II; **1948, London** : Germany and Japan not invited, but a record 59 other countries attend; **1952, Helsinki** : Russia participates for the first time in 40 years; **1956, Melbourne** : Netherlands, Spain and Switzerland boycott the games. The People's

Republic of China refuses to participate in the Games. Athletes from all nations enter the stadium in unity in the closing ceremonies for the first time; **1960, Rome** : A black African wins a gold medal for the first time. The Games covered by television worldwide; **1964, Tokyo** : Japan spends \$ 3 billion dollars to rebuild Tokyo for the Olympics; **1968, Mexico City** : The Games held at the highest altitude ever - 7,349 feet; **1972, Munich** : 11 Israeli athletes are killed when Palestinian militants storm the Israeli team headquarters; **1976, Montreal** : Taiwan and African nations boycott the game; **1980, Moscow** : For the first time, Games are held in a communist country. America boycotts; **1984, Los Angeles** : 14 countries boycott due to security concerns; **1988, Seoul** : North Korea, Cuba and Ethiopia don't participate; **1992, Barcelona** : Every single nation with an Olympic Committee shows up, including Cuba, North Korea and South Africa; **1996, Atlanta** : 179 nations participate, 79 win medals; **2000, Sydney** : 10,651 athletes from 199 nations participate; **2004, Athens** : The Olympic Games returns to their origins. 10,500 athletes and 5,500 team officials from 202 National Olympic Committees (NOCs) participate.

The Official Olympic Flag

Created by Pierre de Coubertin in 1914, the Olympic flag contains five interconnected rings on a white background. The five rings symbolize the five significant continents and are interconnected to symbolize the friendship to be gained from these international

competitions. The rings, from left to right, are blue, yellow, black, green and red. The colours were chosen because at least one of them appeared on the flag of every country in the world. The Olympic flag was first flown during the 1920 Olympic Games.

Wimbledon Records & Statistics

I. Countries whose representatives have won the 120 Gentlemen's Singles Championships

United States (33), British isles (32), Australia (21), France (7), Sweden (7), Germany (4), New Zealand (4), Switzerland (4), Great Britain (3), Czechoslovakia (1), Egypt (1), Netherlands (1), Spain (1), Croatia (1),

II. Countries whose representatives have won the 113 Ladies' Singles Championships

United States (50), British isles (29), Germany (8), Great Britain (7), France (7), Australia (5), Brazil (3), Czech Republic (1), Spain (1), Switzerland (1), Russia (1)

III. Winners of most Gentlemen's Singles' Championships:

- 7 P. Sampras (USA) 1993-1995, 1997-2000
7 W.C. Renshaw (BRI) 1881-1886, 1889

IV. Winners of most Gentlemen's Doubles Championships

- 9 T.A. Woodbridge (AUS) 1993-1997, 2000, 2002-2004
8 H.L. Doherty (BRI) 1897-1901, 1903-1905
8 R.F. Doherty (BRI) 1897-1901, 1903-1905

V. Winners of most Ladies' Singles Championships

- 9 Miss M. Navratilova (USA) 1978, 1979, 1982-1987, 1990
8 Miss H.N. Wills/Mrs. F.S. Moody (USA) 1927-1930, 1932, 1933, 1935, 1938

VI. Winners of most Ladies' Doubles Championships

- 12 Miss E.M. Ryan (USA) 1914, 1919-1923, 1925-1927, 1930, 1933, 1936

VII. Winners of most Mixed Doubles Championships - Gentlemen

- 4 O.K. Davidson (AUS) 1967, 1971, 1973, 1974
4 K.N. Fletcher (AUS) 1963, 1965, 1966, 1968
4 E.V. Seixas (USA) 1953-1956

VIII. Winner of most Mixed Doubles Championships - Ladies

- 7 Miss E.M. Ryan (USA) 1919, 1921, 1923, 1927, 1928, 1930, 1936

IX. Winner of most Singles, Doubles and Mixed Doubles Championships Gentlemen

- 13 H.L. Doherty (BRI) 5 singles 8 doubles 1897-1905

X. Winner of most Singles, Doubles and Mixed Doubles Championships - Ladies

- 20 Miss B.J. Moffit/Mrs. L.W. King (USA) 6 singles, 10 doubles, 4 mixed 1961-1979
20 Miss M. Navratilova (TCH/USA) 9 singles, 7 doubles, 4 mixed 1976-2003
19 Miss E.M. Ryan (USA) 12 doubles, 7 mixed 1914-1934

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XI. Winners of Singles, Doubles and Mixed Doubles Championships in One Year - Ladies

1920	Miss S.R.F. Lenglen (FRA)	1950	Miss A.L. Brough (USA)
1922	Miss S.R.F. Lenglen (FRA)	1951	Miss D.J. Hart (USA)
1925	Miss S.R.F. Lenglen (FRA)	1967	Mrs. L.W. King (USA)
1939	Miss A. Marble (USA)	1973	Mrs. L.W. King (USA)
1948	Miss A.L. Brough (USA)		

XII. Winners of Singles, Doubles and Mixed Doubles Championships in One Year - Gentlemen

1937	J.D. Budge (USA)	1939	R.L. Riggs (USA)
1938	J.D. Budge (USA)	1952	F.A. Sedgman (AUS)

XIII. Youngest Champions

Gentlemen's Singles	B.F. Becker (GER)	17 years, 227 days (1985)
Gentlemen's Doubles	R.D. Ralston (USA)	17 years, 341 days (1960)
Ladies' Singles	Miss C. Dod (BRI)	15 years, 285 days (1887)
Ladies' Doubles	Miss M. Hingis (SUI)	15 years, 282 days (1996)
Mixed Doubles	R.G. Laver (AUS)	20 years, 328 days (1959)
	Miss S.J. Williams (USA)	16 years, 282 days (1998)

XIV. Oldest Champions

Gentlemen's Singles	A.W. Gore (BRI)	41 years, 182 days (1909)
Gentlemen's Doubles	G.P. Mulloy (USA)	43 years, 226 days (1957)
Ladies' Singles	Mrs A Sterry (BRI)	37 years, 282 days (1908)
Ladies' Doubles	Miss E.M. Ryan (USA)	42 years, 152 days (1934)
Mixed Doubles	S.E. Stewart (USA)	42 years, 28 days (1988)
	Miss M. Navratilova (TCH/USA)	46 years, 261 days (2003)

XV. The Youngest Competitors

Gentlemen's Singles	S.B.B. Wood (USA)	15 years, 231 days (1927)
Gentlemen's Doubles	S.B.B. Wood (USA)	15 years, 234 days (1927)
Ladies' Singles	Miss J.M. Capriati (USA)	14 years, 90 days (1990)
Ladies' Doubles	Miss J.M. Capriati (USA)	14 years, 92 days (1990)

XVI. The Oldest Competitors

Gentlemen's Singles	M.J.G Ritchie (GBR)	55 years, 247 days (1926)
Gentlemen's Doubles	J.R. Borotra (FRA)	65 years, 317 days (1964)
Ladies' Singles	Mrs. A.E. O'Neill (GBR)	54 years, 304 days (1922)
Ladies' Doubles	Mrs. C.O. Tuckey (GBR)	54 years, 352 days (1932)
Mixed Doubles	J.R. Borotra (FRA)	64 years, 320 days (1963)
	Mrs. A.E. O'Neil (GBR)	55 years, 304 days (1923)

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The Youngest Seeds

men's Singles	B.R. Borg (SWE)	17 years, 19 days (1973)
Singles	Miss J.M. Capriati (USA)	14 years, 89 days (1990)

The Oldest Seeds

men's Singles	R.A. Gonzales (USA)	41 years, 45 days (1969)
Singles	Mrs. L.W. King (USA)	39 years, 210 days (1983)

Tallest Players

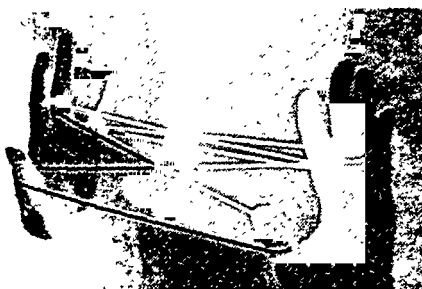
men	F.H. Anpon (PHI) 1948-1953	4 feet 11 inches
	Miss C.G. Hoahing (GBR) 1937-1938, 1964-1961	4 feet 9.5 inches

Shortest Players

men	Karlovic (CRO) (2003)	6 feet 10 inches
	Miss L.A. Davenport (USA) 1993-2001, 2003, 2004	6 feet 2.5 inches
	Miss E. Bovina (RUS) 2001-2004	

Asian Games (1951-2002)

Date	Venue	Events	Nations	Part	Top
Mar 4-11	N. Delhi	6	11	489	Japan/India/Iran
May 1-9	Manila	8	18	970	Japan/Philippines/South Korea
May 24-June 1	Tokyo	13	20	1,422	Japan/Philippines/South Korea
Aug 24-Sept. 4	Jakarta	13	17	1,545	Japan/Indonesia/India
Dec. 9-20	Bangkok	14	18	1,945	Japan/South Korea/Thailand
Dec 9-20	Bangkok	13	18	1,752	Japan/South Korea/Philippines
Sept. 1-16	Tehran	16	25	2,869	Japan /Iran/China
Dec. 9-20	Bangkok	19	25	3,842	Japan/China/South Korea
Nov.19-Dec.4	N.Delhi	21	33	4,595	China/Japan/South Korea
Sept.20-Oct.5	Seoul	25	27	3,345	China/South Korea/Japan
Sept.22-Oct.7	Beijing	27	38	4,684	China/South Korea/Japan
Oct.2-16	Hiroshima	34	42	7,300	China/South Korea/Japan
Dec.6-20	Bangkok	36	41	9,649	China/South Korea/Japan
Sept.29-Oct.14	Busan	38	44	10,500	China/South Korea/Japan
Dec. 1-15	Doha	39	45		



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Sports Calendar 2006

January

4. India wins women's Asia Cup Cricket tournament beating Sri Lanka in the final by 97 runs at Karachi. This is India's second consecutive tournament victory in Asia Cup.

5. Parimarjan Negi becomes India's youngest chess player to win a Grandmaster norm • National Hockey Premier league begins in Chandigarh.

6. Ricky Ponting (Australia) creates a new record in Test cricket by scoring centuries in both innings of his 100th test. Australia wins test series against South Africa (2-0). Anuja Kumari becomes national women's snooker champion.

10. 10th National football league kicks off.

11. Aparna Popat becomes national badminton women's champion. Her ninth triumph in national badminton championship is a record. Anoop Singh becomes men's champion.

13. India - Pakistan test cricket series begins in Lahore.

15. Third Mumbai International Marathon: Rono Daniel (Kenya) and Seboka Mulugeta (Ethiopia) become winners in men's and women's events respectively.

16. Australian Open tennis tournament begins.

17. First match in the Indo-Pak cricket series ends in a

draw. Virender Sehwag equals Sir Don Bradman's record of hitting most boundaries in an innings (48).

20. Railways champions in 60th men's and women's section of National volleyball championship.

21. Second Indo-Pak test cricket series starts in Faizalabad. Former Captain Sourav Ganguly couldn't get place in the final eleven.

22. National School Athletic meet begins in Pune.

25. India-Pak second test ends in a draw. Man of the Match: R.P. Singh • Kerala emerges winner in School Athletic meet, recording a consecutive ninth championship victory to earn a triple hatrick. Kerala with 39 gold, 29 silver and 18 bronze earned 331 points.

28. French Amelie Mauresmo wins Australian open Tennis Womens singles.

29. The third and final test between India and Pakistan begins in Karachi. Indian pacer Irfan Pathan gets a hatrick in the very first over of the match, becoming the first bowler to do so • Roger Federer (Switzerland) beats Marcos Baghdatis (Cyprus) in the final of the Australian Open men's singles category • Mahesh Bhupathi - Martina Hingis duo wins mixed doubles crown.

February

1. Bangalore Lions emerge winner in the second premier national hockey league beating Chandigarh Dynamos 2-1 in the last and third final • Pakistan clinches Indo-Pak test series 1-0, beating India by 341 runs in the third test of the series • Man of the series: Younis Khan.

2. Uttar Pradesh clinches Ranji Trophy cricket tournament by earning a first innings lead over Bengal in the final. This was UP's first National cricket championship victory.

3. M.G. University emerges champions in inter university Athletic meet with 84 points. Calicut and Kerala win 2nd and 3rd position respectively. Men's individual champion: Ratiram (Rajasthan); Women's champions: M.A. Prajusha (Calicut) and Ashakumari (Himachal).

5. Under 19 World cup cricket begins in Colombo. Former Indian cricketer Narendra Hirwani retires from first class cricket.

6. India-Pak one day cricket series begins in Peshwar. Pakistan wins as per Duckworth-Lewis rule, though the match was stopped due to bad light. Sachin Tendulkar completes 14,000 runs in one day wicket. Pak captain Inzamam Ul Haq loses wicket by the rare 'obstructing the fielder' Australian captain Ricky Ponting awarded Alan Border award.

March

10. 20th edition of Winter Olympics begins in Turin, Italy
 • Egypt wins African Nations Football cup. In the final, Egypt defeated Ivory Coast by penalty shoot-out 4-2. Nigeria came third defeating Senegal 1-0.

11. India beats Pakistan by 7 wickets in the second one day match at Rawalpindi. India enters semifinals of under-19 cricket world cup by beating West Indies by 126 runs.

12. South Korea beats India 4-1 in Asia-Oceania zone group I of Davis Cup tennis.

13. Kerala State College Games begins in Thiruvananthapuram. India wins third one day match against Pakistan at Lahore. Man of the match: M.S. Dhoni (72 runs). Score Pakistan 288/7, India: 292/5
 • Bangalore WTA open tennis begins.

15. Indian juniors beat England by 234 runs and enter finals of Under-19 World Cup
 • ICC chief executives committee suggests to avoid super sub system in International one day cricket.

16. India once again beats Pakistan. In the fourth one day at Multan, Pakistan were beaten by 5 wickets. India leads series 3-1. Man of the match: R.P. Singh.

17. India-Pakistan hockey series begins in Chandigarh. In the first match, Pakistan beats India 2-1 • Nimbus global media wins broadcasting rights for four years to telecast India's cricket (2700 crores).

19. India clinches one day series 4-1 by beating Pakistan in the last and final match at Karachi • Yuvraj Singh is ad-

judged Man of the Man and Man of the Series. Rahul Dravid completes 9000 runs in ODI's
 • Pakistan emerges champions in Under 19 World Cup cricket beating arch rivals India by 38 runs in the final • L.N.C.P.E, Thiruvananthapuram and Changancherry Assumption College championed (both scoring 38 points each) in Kerala College Games.

22. Pakistan leads hockey series against India 3-0. In the fourth match, India draw Pakistan 1-1.

23. India announces team for test series against England. Former Captain Saurav Ganguly can't make it. Riyush Chawla, S. Sreesanth, Suresh Raina and Vikram Singh are new-comers.

24. Former Indian football goalkeeper Sanjeev Ujjil passed away in Mumbai • India beats Pakistan (2-1) in the fifth match of hockey series at Faizalabad
 • KSEB emerges winners in Kerala state club football championship by beating SBT 2-1 in the final.

26. Manchester United crush Wigan 4-0 to lift the English Carling Cup football in Cardiff.

28. Ignace Turkey becomes Indian Hockey Captain. Turkey is the third captain from the tribal community after Jaipal Singh Munda and Dilip Turkey. Sri Lankan ace spinner Muttiah Muralitharan plays his 100th test
 • Federation cup athletics meet begins in New Delhi. Annesha K. Viyan (CRPF) creates new meet record in triple jump and V.S. Surekha (Tamil Nadu) breaks record in pole vault.

1. India-England test series begins in Nagpur.

2. Sri Lankan ace spinner Muttiah Muralitharan completes 1000 wickets in international cricket (both test and one day). Muralitharan, the first cricketer to achieve this feat, passes the milestone during the Bangladesh - Sri Lanka test at Chittagong.

5. First test between India and England ends in a draw. Man of the match: Mathew Hoggard.

9. Second match of the India-England test series begins in Mohali. Piyush Chawla becomes the second youngest Indian test cricketer.

10. Muttiah Muralitharan gets his 600th test wicket during the second test between Sri Lanka and Bangladesh.

11. Anil Kumble completes 500 test wicket to become the first Indian to do so.

12. Australia-South Africa one dayer at Johannesburg turns historic. Australian score of 434/4 is a world record but South Africans overcome that score by 438/9 in 49.5 overs. Both teams score 872 runs, which too is a record surpassing the 693 runs scored by India and Pakistan in Karachi, 2004. South Africa clinches series 3-2. Aussie captain Ricky Ponting becomes the first Australian to complete 9000 runs in one day cricket • 2006 Formula - 1 season begins with Bahrain Grand Prix.

13. India wins Mohali test by 9 wickets. Man of the match: Anil Kumble.

15. 18th Com

James starts in Melbourne.

18. The last and third test between India and England starts in Mumbai. Sachin Tendulkar becomes the most capped Indian test player (132 tests). Rahul Dravid plays his 100th test.

19. Team Renault's Jancarlo Fisichella emerges winner in Malaysian Grand Prix racing.

21. Sania Mirza named VTA's best newcomer award winner.

22. England defeats host India by 212 runs in the Mumbai test. Andrew Flintoff earns 60th Man of the match and Man of the series awards.

24. Two Indian weightlifters Divin Raju and Tejinder Singh are found positive in drug test during Commonwealth Games.

26. 18th Commonwealth Games ends. Australia with 83 gold, 67 silver and 67 bronze medals (total 217) tops the medal tally. England and Canada emerges second and third respectively. India with 22 gold, 17 silver and 11 bronze medals (total 50) comes fourth. Indian shooter Samresh Jung is named best athlete of the Games.

27. India's Gagan Narang clinches gold in I.S.S.F. shooting world cup held at Wanshire and earns the 2008 Olympic quota. Narang becomes the first Indian to qualify for the Beijing Olympics.

28. India - England one day series begins in New Delhi. India wins the first match by 39 runs. Man of the Match: Yuvraj Singh • International

Weightlifting Federation suspends Indian weightlifting federation as four Indian weightlifters are tested positive in doping test.

31. India-England one dayer at Faridabad. India wins by 4 wickets. Man of the match: Suresh Raina.

April

03. India wins by 49 runs in the third match of the India-England one day series held at Madhya Pradesh. Gagan Ajit Singh appointed Captain of Indian hockey. V. Bhaskaran is the new coach.

06. India-England fourth one dayer at Kochi. India wins by four wickets. Man of the match: Yuvraj Singh. India creates a new record of 15 consecutive victories by chasing the opponents. Surpassing the West Indies' 14 victories.

07. Davis Cup Asia - Oceania Zone Group I play off matches between India & Pakistan begins. Both teams record one victory each.

08. India wins the Doubles match in India-Pak Davis Cup.

09. India victorious (3-2) in the Indo-Pak Davis Cup Asia-Oceania zone Group I tournament. Fifth on day match between India & England cancelled due to rain.

12. England defeats India by 5 wickets in the sixth one day match.

15. India defeats England by 7 wickets in the last and seventh one day match at Indore. Man of the match: S. Sreesanth. The series goes to India, 5-1. Man of the series: Yuvraj Singh.

18. India-Pakistan DLF one day cricket tournament begins in Abu Dhabi. Pak wins the first match by six wickets.

19. India defeats Pakistan by 51 runs in the second match of DLF cricket tournament. Series goes drawn (1-1). Man of the match: Virender Sehwag. of the Series: Inzamam Ul

20. Indian wicket keeper and batsman M.S. D. ranked No.1 in ICC batting ranking. Shaun Pollock ranked first among bowlers.

22. Michael Schumacher creates world record in completing most number of positions in F-1 racing (6 victories). The qualifying round San Marino Grand Prix gives him the title. He surpasses record set by Brazilian driver Ayrton Senna. • Former Brazilian football coach Telê Santana (74) dies in Sao Paulo. • Morocco's athletic legend Hicham El Guerrouj retires.

23. Michael Schumacher tops San Marino Grand Prix.

29. Former Olympic hockey player Sankar Laxkar (72) passes away in India. Chelsea wins English Premier league. It is Chelsea's sixth consecutive league crown.

30. ICC Board meeting in Dubai decides to allot 2 cricket world cup venues jointly to India, Pakistan, Sri Lanka and Bangladesh.

Australia - New Zealand will jointly host 2015 world cup cricket tournament. England will be venue for 2019 world cup. ICC decides to give 2007 T20 world championship to South Africa.

May

02. Scott Graeme Smith is crowned world snooker champion.

03. FC Barcelona wins Spanish football league.

07. South zone under - 21 football championship goes to Kerala (9 points) •Ferrari's Michael Schumacher wins European Grand Prix.

10. Spanish club Seviya wins UEFA Cup Football championship, beating Middlesbroy 4-0 in the final.

11. Former boxing champion Floyd Patterson (71) passes away in New York.

12. Justin Gatlin (US) equals 100 m. world record (9.77 sec). He equals the record set by Jamaican Asafa Powell. Gatlin reaches the landmark during the IAAF Super Tour Meet held at Doha.

13. Liverpool wins FA Cup football championship. They defeat West Ham in the final to claim their 7th FA championship.

14. Team Renault's Fernando Alonso finishes first in Spanish Grand Prix.

17. Barcelona triumphs in European champions league, beating Arsenal 2-1 in the final.

18. India-West Indies one day series begins in Kingston. India wins by 5 wickets. Rahul Dravid becomes the first Indian to score a one day century in West Indies soil. Man of the match: Rahul Dravid. Bangkok hosts first leg of Asian Grand Prix athletic meet. India earns 12 medals - 3 gold, 5 silver and 4 bronze.

19. Former Olympian footballer D. Kannan (71) passes away in Hyderabad.

20. West Indies beat India by one runs in the second one day match at Kingston. Man of the match: Ramnaresh Sarwan. India - Pak boxing series begins in Lahore. In the first match India's Parvinder Singh beats Nadir Khan.

21. Rajyavardhan Singh Rathore earns gold in double trap shooting in World Cup shooting held at Cairo.

22. Asian Grand Prix athletic meet second leg at Bangalore. India tops medal tally with 5 gold, 7 silver and 5 bronze medals.

23. India - West Indies third one dayer at St. Kitts. India defeated by 4 wickets. Man of the match: Ramnaresh Sarwan.

25. Bengal champions in Under 21 National football (Mahindra Dutta Trophy). In the final held at Jamalpur, they beat Punjab 1-0.

26. West Indies again beats India by 6 wickets in the fourth one dayer at port of Spain. Windies clinches series 3-1. Man of the match: Dwane Bravo.

27. Baichung Bhutia is named best player and best forward in the 10th national football league •East Bengal defeats National league champions Mahindra United (2-1) to clinch Super cup football.

28. Fernando Alonso (team Renault) finishes first in Monaco Grand Prix •West Indies clinches one day series against India (4-1). In the last and fifth one day match, Windies defeat India by 19 runs. Man of the match: Dwajine Bravo. Man of the Series: Ramnaresh Sarwan •French Open tennis begins on a Sunday for the first time

•Saina Nehwal becomes the first Indian player to win a four star badminton tournament. She defeats Julia Xian Pei Wong (Malaysia) 21-15, 22-20 in the women's singles final of Philippines open at Pasig city, Manila. Bob Houghton (England) is appointed chief coach of Indian football.

29. Rafael Nadal (Spain) sets new record for most number of consecutive wins in day court. He achieves the feat while registering a victory against Robin Soderling (6-2, 7-5, 6-1) at the French open. Nadal's 54th straight victory breaks the record set by Argentina's Guillermo Vilas in 1977.

30. Kerala wins National Youth volleyball championship in the women's section, beating host Karnataka in the final. But Karnataka men beat Kerala in the finals of men's section.

June

2. India-West Indies test series begins in Antigua. Geeth Sethi regains world professional billiards title defeating England's Lee Lagan by over 1000 points. This is his fifth professional world title.

3. Mesert Defar of Ethiopia sets new record in women's 5000 m. race during New York Grand Prix.

6. First test between India and West Indies ends in a draw. Man of the match: Wasin Jafer.

9. 18th World Cup Football kicks off in Munich.

10. Second cricket test of the series between India & West Indies begins in Saint Lucia.

17. BCCI announces that 2011 World Cup cricket final will be held in New Delhi.

18. Former Indian football captain V.P. Sathyan (41) ends his career when he is knocked out by a train near Pallavaram railway station, Chennai •English squash ace Peter Nicol retires from sports.

20. FIFA bans French football captain Zinedine Zidane for three matches for headbutting Italy's Marco Materazzi during the 2006 World Cup final. Materazzi will miss two matches for provoking the French Captain. Zidane is fined 500 Swiss francs and Materazzi 5,000 francs. Since Zidane retired from football, he will perform three days of community service as part of FIFA's humanitarian activities.

23. American Floyd Landis wins Tour de France cycling championship following the final stage.

24. Abhinav Bindra clinches India's first ever gold in world shooting championship. At Zagreb, the 23 year old Olympian wins the 10m. air rifle. The other cases in which Indians won medals are - Dr. Karni Singh -Silver, 1962, Cairo and Vijayvardhan Singh Rathore - bronze, 2003, Cyprus). Indian junior boys bag the country's first team medal in a world shooting championship earning a third position. Harveen Rao wins a bronze in air pistol junior girls event.

25. Former Captain Dunga appointed national football coach of Brazil •Navnath Dhotare bags junior men's air rifle gold in world shooting championship.

27. India gains yet another gold in the world shooting championship. Manavjit Singh Sandhu wins gold in trap event. The Indian men's team win the silver •Tour de France winner Floyd Landis' sponsor team announces that Landis is tested positive for abnormal levels of testosterone after stage 17 of the race.

29. Sri Lankan batsman Mahela Jayawardene and Kumara Sangakkara register new record for highest partnership in test cricket (627 runs) on the third day of first test against South Africa.

30. Michael Schumacher finishes first in the German F-1 Grand Prix •ICC formally recognises Twenty 20 cricket as an official format of cricket •Holland wins men's Champions Trophy hockey tournament defeating Germany 2-1 in the final. Spain clinches the third position beating Australia 5-4 on penalty strokes.

August

01. Former Indian footballer Ramachandra Balaram Parab passes away in Mumbai. He played in the 1948 Olympics.

05. Tour De France champion Floyd Landis is tested positive in back-up doping.

06. Honda's Jenson Button registers his first ever victory in Formula One during Hungarian Grand Prix.

Viswanathan Anand wins the 21st Ciudad de Villarrobledo rapid chess title in Villarrobledo.

13. Football players Association (FPA) of India is launched at Kolkata.

14. Baichung Bhutia named captain of Indian football.

16. South Africa pulls out of Unitech tri-series cricket tournament following a bomb in Colombo two days before other teams - India and Sri Lanka - decide to play a match one day series in Colombo.

17. Turkey appointed captain of India hockey team for the hockey World Cup.

18. South Asian , for SAF Games, begins in Colombo.

20. Ball tampering controversy once again rocks cricket. On the fourth day of the test against England at the Pakistan is penalised five and ball is changed for ball tampering. Pakistan boycotts match. The three match Unitech cricket series between India and Sri Lanka is called off due to bad weather. Viswanathan Anand wins Chess classic at Mainz for sixth time.

21. ICC declares England winners in the oval test following Pakistan's decision not to play.

22. US athlete Justin Gatlin receives a eight year ban from athletics following a positive doping test.

23. National sports awards declared. Cueist Pankaj Advani gets Rajeev Gandhi Khel Ratna award. M. Venu (boxing) and Maha Singh Rao (wrestling) and Ismail Baig (rowing) and Balwan Singh (Kabaddi) conferred Dronacharya awards. Pakistan's former cricketer Wasim Raja (54) passes

by 16 runs in the 1st series one day tournament. Man of the match: Habbajan Singh.

21. 60th National senior aquatic championship starts in Bangalore.

22. India defeated by the mighty Aussies at a margin of 10 runs in the DLI cricket tournament.

23. D.P. Singh from Jharkhand crowned in the 16th national open flyweight tournament.

24. Australia lifts Blundells DLI cricket championship, beating West Indies by 127 runs in the final. Best Test declared Man of the series and Man of the match • Martina Hingis wins Southeast Open Singles title • Sanku Maza • Hazel Hoberth wins doubles titles.

25. Sharad Pawar elected RC CI President. Karnataka emerges overall champions in the 60th Senior National aquatics championship. India thrashes Pakistan 4-0 in the Under 19 cricket one day series.

27. Women's Hockey world Cup begins in Madrid • Dilip Vengsarkar named chairman of the cricket selection committee • Kapildev becomes Cricket Academy Chairman.

28. Pakistan cricket captain Ijaz Butt cleared of ball tampering charges during the England Pakistan cricket test at the Oval on Aug. 20. But ICC imposes a four match one day ban on him for leading a protest against the umpires.

October

01. Michael Schumacher wins Shanghai F-1 grand Prix • Fernando Alonso finishes second • Challenger trophy cricket

tournament starts in Chennai. In the first match, India Red defeats India Blue.

03. Former Olympic silver medalist and supporter of the 1968 'black power salute', Peter Norman (64) dies in Melbourne.

04. India Blue and India Red declared joint winners in the NKP Salve Challenger trophy cricket tournament. Player of the series: VVV Singh.

05. Preeti Uredharan (Railways) creates new national record in women's 10,000 m race during National Open athletic meet.

07. K.C. champions trophy cricket tournament, known as mini world cup begins in Mohali. In the first match, Sri Lanka beats Bangladesh by 37 runs.

08. Fernando Alonso clinches Suzuka F-1 grand prix. Michael Schumacher couldn't complete the race because of engine damage.

11. Rest of India lifts hand trophy beating UP by 9 wickets.

12. South Africa's Herschelle Gibbs reveals Delhi police that he was part of conspiracy in the betting scandal during South Africa's Indian tour of 2000. Former captain Hansie Cronje offered him money for becoming part of it.

13. Vladimir Kramnik of Russia becomes world chess champion. Kramnik is the first universally recognised world champion since 1993, defeating Bulgaria's Veselin Topalov in China.

15. Kenya's Francis Kibiwott and Timothy Chepkirui win men's

and women's category in Delhi half marathon • Sachin Tendulkar becomes the uncapped one day international cricket player (368 matches) India beats England by 4 wickets in the ICC champions trophy at Jaipur. Man of the Match: Munaf Patel.

16. Pakistan bowlers Shoaib Akhtar and Muhammad Asif who were tested positive for anabolic steroid nandrolone were recalled from ICC champions trophy.

19. K.C. makes it clear that only it has the power to reinstate banned players.

20. National Hockey championship begins in Chennai.

22. Renault's Fernando Alonso clinches the 2006 drivers F-1 championship with 10 points. In the Brazilian Grand Prix, Renault's Felipe Massa finishes first. Renault with 20 points earns the team championship • Michael Schumacher retires • Maria Sharapova wins Zurich Open title beating Daniela Hantuchova 6-1, 4-6, 6-3 in the final.

25. Punjab wins Santosh Trophy, beating the mighty

athletics meet held at Warangal • New Zealand captain Stephen Fleming becomes the most capped skipper in one day international cricket (194 matches) overtaking Arjuna Ranatunga's record of 193 matches **26.** West Indies beats India by 3 wickets in the K.C. Champions Trophy. Man of the match: Shivanand Chandrapaul.

The Exciting World of Hobbies

The pursuit of a hobby offers enjoyment, education, companionship with others of similar interests, relaxing diversion, and very often moderate monetary gain.

Philately

An educator named Rowland Hill of England is considered the Father of Philately. The world's first postage stamp was issued in 1840 by Great Britain. Two years later stamps were used by a private postal service in New York. Brazil and two Swiss cantons (Zurich and Geneva) were the next to issue stamps. The U.S. used its first stamps on July 1, 1847. India's first stamp appeared in 1852.

The bits of coloured paper were a curiosity and used specimens were retained by some people. Thus the hobby was born. The interest spread rapidly and everywhere men and women began hunting for used stamps of different countries. By 1850, the hobby had taken root.

Today stamp-collecting is the world's most popular hobby. It is described as 'the hobby of kids and kings'.

What makes a stamp precious is rarity,

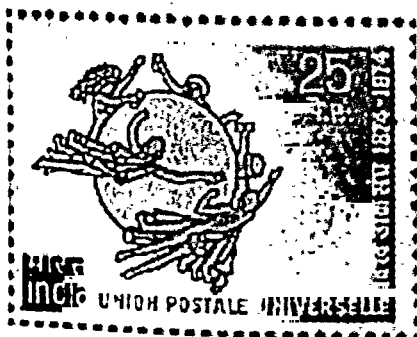
demand and good condition. There are many philatelic gems which are much sought after. Many of these are stamps with errors in printing. A good example is the one-penny Mauritius stamp of 1847 on which the inscription happened to be 'Post Office' instead of 'Post Paid', by mistake. There are hundreds of stamps which are valued above 1,000 dollars.

In recent times the study of stamps has been taken up by many. Research papers on philately are published often. There are muse-



ums of stamps and philatelic libraries, not to mention the umpteen stamp clubs. Stamp catalogues, albums and other accessories for the stamp collector are sold in large numbers every day. Philatelic exhibitions and stamp auctions are regular events in many cities. There are also journals devoted to philately and we hear about philatelic journalists. Many modern newspapers have stamp departments to cater for the tastes of their stamp-loving readers.

Stamps have a new face now. They are a form of investment, like paintings or share certificates. In advanced countries, stamp investment has reached a high degree of growth. Indians too are now investing in



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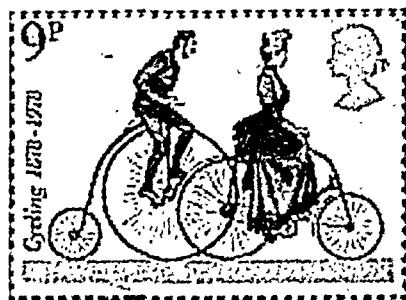


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Denomination: Denomination is the inscribed value of a stamp.

Die: The piece of metal or other material on which the original design of the stamp is engraved and is used for making a printing plate.

Die Proof: A proof or trial impression taken directly from the die.

Embossing: A process allied to printing, whereby the whole or part of a design is raised or in low relief by the help of a die.

Engraving: The art of cutting stamp designs on metal, wood etc. to prepare a die for the printing of a stamp.

Error: A mistake in the stamp's design or one appeared after its production.

Face Value: The value of a stamp as printed thereon or its equivalent in local currency at the prevailing rate of exchange.

Fake: A genuine stamp/post mark which has been altered or repaired in some way to hide a defect or to make a common item

resemble a rare one, for the purpose of deceiving collectors.

Fiscal: An adhesive or other stamp signed for revenue or taxation purpose, not for postage.

Forgery: A fraudulent copy of genuine postage stamp or postmark either to deceive the Post Office (Postal Forgery) or to deceive the philatelists (Philatelic Forgery).

Gum: Gum is the mucilage applied to the backs of adhesive postage stamps, and has its basis crystalline gum arabic.

Gutter: The space, usually blank, between the 'panes' of a sheet of stamps, to allow them to be separated or perforated.

Harrow Perforation: A means of perforating, both vertically and horizontally within sheets at a time.

Imperforate: Stamps printed in sheets without perforations or other means of separation, except by the use of knife or scissors.

Imprint: Name of designer or printer of stamps printed on sheet margins.

Inverted: Turned upside down.

Jubilee Line: The inked printer's rule, frame or line surround, enclosing a pane of stamps.

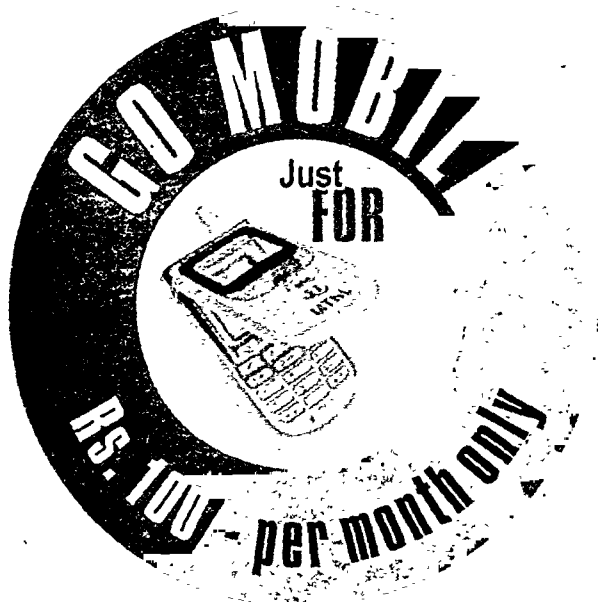
Key Plate: Printing plate for common use of a pair or more different stamps, paired with a 'duty' plate.

Killer: Any cancellation sufficiently heavy to disfigure most of the design.

Locals: Local stamps are those whose postal validity is restricted to a particular district, route or service, and are not available for general, national or international use.

Margins: The word has two philatelic meanings, in one it refers to the blank border of a sheet of stamps and in the other to the border of the individual stamps.

Maximum Card: A pictorial postal card bearing a relevant picture or design, a stamp related to the subject on the card, and a post mark relevant to both. It may be issued by a postal authority or may be privately issued.



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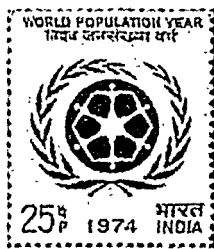
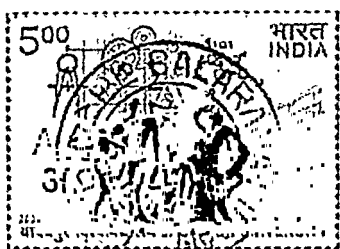
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Miniature Sheet: A smaller-than-normal sheet of stamps, often issued to commemorate a special event. A miniature sheet issued for philatelic purposes is called souvenir sheet. Some authorities set an arbitrary limit of 25 or fewer stamps for a sheet to qualify as miniature.

Mint: A stamp in pristine condition; exactly

Pane: Section of a sheet of stamps sometimes subdivided into sections by gutters. A booklet pane is one complete leaf.

Paquebot: Term used internationally on postmark applied to mail posted on board ship. Paquebot markings are a popular and interesting study.



as issued by the post office, unused, unfaded.

Mourning Stamps: Stamps paying sad tribute to deceased head of states, or a person of national importance, and which are edged or printed in black.

New Issue Service: Under this system the dealer agrees to supply, and the collector agrees to accept and pay for, all new issues of the chosen country or countries, upto a prescribed limit of face value, at a given percentage over face or cost.

Obsolete: Philatelically no longer in use; the stamp not available to the public at post offices in the country of origin, but not necessarily invalid for prepayment of postage.

Official Stamps: Issued or overprinted for use by government or government department.

Omnibus Issue: Any group of stamps, frequently sharing a common design, issued by a number of stamp issuing authorities to mark the same occasion.

Pair: Two unseparated stamps, joined horizontally or vertically, the former being normally preferred by collectors.



Perfins: Initial letters punched through stamps by the firm using them to prevent their misuse.

Perforation: Holes punched between stamps for ease in separation.

Philatelist: A student of philately—the study of postage stamps and their production.

Pictorials: Stamps with a picture design e.g. land scene, building, flowers, animals etc. as opposed to those of more traditional motif such as Portrait or coat of arms.

Plate Number Block: Four or more stamps to which the marginal paper bearing the printing plate or cylinder number is attached. It is also known as Plate Block.

Precancel: A stamp postmarked prior to use on bulk mail postings by postal authorities to save time in handling large blocks of mail as stamps so treated normally do not require further cancellation.

Pre-stamp Cover: Envelopes, wrappers and letter sheets bearing evidence of postal use before the introduction of adhesive postage stamp or pre-stamped stationery.

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der to place a call when payment is required.

There are many types of cards used in different countries, depending on the telecommunication systems provided by the various companies. A phone card is purchased with a specific balance, from which the cost of calls made is deducted. Once the balance is over, a new card is purchased, rather than having the old one re-filled. Telecom companies have taken advantage of phone cards to advertise on the card and feature artwork, photography and even celebrities. With the help of modern printing technology all types of photos and scenery are printed on the cards. Because of its bigger size compared with the usual postal stamps, cards are more picturesque. Another attraction of phone cards is that they are disposable. What is more, they are easy to handle.

The first known International Phone Card Exhibition was held in the General Post Office in Dubai, in Sept, 1995. The first Telephone Card Exhibition in India was held in the Nagpur Press Club, on August 2, 1996.

Autograph Collection

A hobby that fascinates both young and old is autograph collection. Autographs of legendary personalities are precious possessions for those who admire them. People are known to have spent hours and hours to get a signature from their heroes. To some it may be a cricketer while to others it may be a film star or a political leader:

The hobby has come of age in India. It is seen as an activity of great educational value that teaches the collector the history of one's own country. Obtaining a VIP's signature can sometimes kindle a new interest in a child who pursues further study of the personality and his mission. The hobby also helps to bring people into contact with others of similar interests.

Signatures can be collected in a notebook or on paper. But it is common to see cricketers place their signatures on bats, balls and stumps. Other items to carry autographs include photographs, First Day Covers, Special Covers, sketches, cartoons and books. Imagine your getting Arundhati Roy's signature on a copy of her *The God of Small Things*.

Not all legendary personalities are easily accessible. Some are generous while others are not. Kapil Dev is among the most accessible in India.

How Gandhiji used to oblige autograph hunters is well-known. He took Rs. 5 for every autograph he signed, and donated the proceeds to the Harijan Welfare Trust. Former Prime Minister Morarji Desai gave autographs to only those who promised to wear khaddi.

Autograph collecting in India has become an organised adult passion. How can one gather autographs? The first step is writing letters to celebrities. Many of them respond to your requests. You can also enhance your collection by exchanges, that is, with people who possess two or more autographs from the same celebrity. Meeting the VIP at his home, or at a public place is the third way to acquire an autograph. Public relations officers of celebrities can also help you.

Autographs are now seen as investments too. You can be sure of a huge price for a photograph of Marilyn Monroe signed by her. Similarly a book autographed by Arthur Haile should reward you well. Insurance companies insure prized autographs, authorized dealers sell them and they are also auctioned at Christies, etc. The last two real autographed Beatles albums went for \$60,000 a piece. Could you imagine the price a signed Walt Disney drawing could fetch?

Enthusiasts in India can now join the Autograph Collectors Club of India in Kolkata and develop their hobby. (e mail:sklahoti@vsnl.net)

Numismatics

The art of collecting and studying coins, other currency, and medals is known as numismatics. A coin collector or a person who studies coins is called a numismatist. These terms are derived from the Latin word numisma, which means "money."

Coin collecting as a hobby dates back more than 2,000 years to the ancient Greeks and Romans. The private acquisitions of 15th- and 16th-century kings and nobles formed the basis for the great national collections of Austria, Hungary, and France.

A good coin collection is an investment and can be profitable in a number of ways. As a pastime it provides hours of pleasure and the satisfaction of watching the collection grow. Moreover, coins—old, new, foreign, or domestic—will always be worth at least as much as the metals of which they are made, and these are often precious metals. The retail value of a coin seldom drops below its face value. An Indian paisa, for example, will almost always be worth at least 1/100th of an Indian rupee. The value of many coins actually increases over a period of time because the demand for these coins increases while their supply remains unchanged.

Coins may be of historical importance. The words and illustrations stamped on ancient coins are often a unique source of information about the civilisations that produced them. Such coins may bear the only remaining depictions of famous historical figures or of buildings that have long since disappeared. An old coin is a survival of the past. It brings with it the atmosphere of the age in which it was minted.

The easiest and most inexpensive way to start a coin collection is to begin with coins that are still in circulation. Everyone carries a certain amount of change. There are many other ways for a beginner to get help in starting a collection. Books about coins and coin collecting can usually be found in public



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libraries. Coin shops also carry books and catalogs that contain valuable information about coins. It is good practice to consult an updated catalog that lists current values.

Collectors usually grade the condition of coins according to the following standards:

Proof : having a mirror-like finish; struck with polished dies on polished blanks.

Uncirculated: in perfect condition; undamaged and showing no signs of wear.

Extremely fine: showing no clear-cut signs of wear, with a finish inferior to that of an uncirculated coin.

Very fine: showing very minor signs of wear.

Fine : showing some signs of wear, but with sharp, clear details.

Very good: showing definite signs of wear.

Good: considerably worn, but with the details of the design still clearly visible.

Fair: badly worn or damaged.

Poor: very badly worn, but with the design still distinguishable.

Coins: Miscellany

The Maria Theresa Thaler: Maria Theresa was Archduchess of Austria from 1740 to '80. The thaler was used as currency even in the 20th century in Austria, Italy and USA. It was popular as currency in Ethiopia. Maria Theresa thaler is always dated 1780.

Cherokee Notes: Notes of the Cherokee nation are among the great rarities. Cherokees were North American Indian people who formerly inhabited North Carolina and northern Georgia.

Indian Coinage: We know much about many Indian rulers of the past from coins. The earliest coins were punch-marked pieces of silver called 'purana'. The invasion of Alexander brought coinage with Greek types and inscriptions to North India.

Paper Money: Sweden had partly printed, partly written receipts for large sum of copper coinage as early as 1661. In 1694,

Bank of England issued printed bank notes. The true ancestors of paper currency, modern billets, were printed in France in 1716 by Scottish financier and speculator John Law. Originally printed from Woodblocks, paper money is a Chinese invention.

Christ and the tribute penny: The tribute penny mentioned by Jesus Christ was a Roman silver denarius of Tiberius. The 30 pieces of silver must have been tetradrachms of Greek or Greek Imperial Mints of Phoenicia or Syria. Exact identification is impossible.

Odd denominations: A Japanese 19th century note existed for the extremely small sum of three copper cash. U.S. bills for \$100,000 are among the extra-ordinary denominations. Over 100 years ago, the US banks occasionally brought out odd denominations like 75 cents and three dollars. Even a nine-dollar bill existed.

Coins of Elizabeth I: Under Queen Elizabeth 'milled' coins were made by machinery brought from France. A colonial series also began in her reign, with special issues for Bombay and Bermuda.

Money in China: In ancient China, there was knife money (shaped like a knife), key money (shaped like a key) and cash. 'Cash' is a Chinese word meaning a small unit of currency.

Gardening

Gardening, most often considered to be a leisure-time pursuit, is the cultivation of such diverse plant groups as flowers, vegetables and fruit, and trees and shrubs.

The flower garden gives the gardener the opportunity to specialize in a favourite flower. The vegetable garden is another important, but quite different, kind of special garden. This is planned to provide fresh, flavourful food for the family for several months, the duration depending on the climate. Fruit gardens can be extensive, and may include small orchards filled with apples,

peaches, pears, or, in mild climates, citrus fruits. Herb gardens are in between flower and food garden. A woodland or a modest sort of wildflower garden can be created on the shady side of a house or even under a single tree. Window gardens or light gardens are what you get when several plants are grouped in a sunny window or placed under fluorescent lights. Terrace gardens are essentially gardens of plants in containers. They include house plant collections brought outdoors in mild weather, hanging baskets of trailing plants, and planters filled with flowering plants. Even vegetables, such as tomatoes and cucumbers, and culinary herbs, can be grown in pots or tubs.

Nearly all kinds of gardens have the same initial requirements. Before anything else is done, some basic tools must be purchased. Start out with as few as possible, adding to the collection as experience is acquired and needs justify. It is good idea to examine the tools used by a seasoned gardener. They may well include a long-handled spade to turn over the soil and dig holes for planting trees and shrubs, a hoe for removing young weed growth and making furrows for seeds, a trowel for transplanting and setting out seedlings and annuals, and a heavy steel rake for grading and smoothing the soil. A wheelbarrow is needed for moving soil, peat moss, and fertilizers, and for transporting plants. Finally, there should be a watering can and lengths of hose.

The kind of garden should determine its location, but in practice, there is rarely much choice, especially on small properties. The soil should be well drained. When used in excessive amounts, all fertilizers can be harmful and can even destroy plants.

Ham Radio

A ham radio operator is a radio enthusiast who by virtue of his fascination towards wireless communication technology enables himself to establish his own two way radio station

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and communicates around the world for the sheer joy, thrill and excitement involved in successfully establishing radio contacts around the world. Thus a fraternity of people evolved around the world, who mostly duplicated each other's radio communication equipment.

The reason why an amateur radio operator is called a 'ham' is but a controversy. Some relate these three letters (HAM) to the names of three great radio experimenters; Hertz (who practically demonstrated the existence of electromagnetic waves in 1888), Armstrong (who developed a resonant oscillator circuit for radio frequency work) and Marconi (the 1909 Nobel laureate in Physics, who in the year 1901 established the first transatlantic radio contact). Ham radio is basically a wireless communication technology. Different types of professional radio communication services came into existence throughout the world due to the utility of the two-way radio. The radio broadcast stations, usually, belong to the Broadcast Services of either government or private organisations. This is a one-way communication where one cannot interact on-the-air. 'Amateur Radio Service' belongs to the people interested in experimenting with their own radio transmitting and receiving equipments. They put their voice on-the-air for listening to and at the same time to reply back by their fellow experimenters around the world. They never accept money for their on-the-air communication.

With the availability of factory made sophisticated ham radio equipments, ham radio became a hobby of the millions who are babes in their knowledge of electronics. Ham radio provides the opportunity to gather knowledge and exchange information on-the-air in an informal way. There is much to learn from ham radio even though it is a hobby. Virtually people from all the professions become ham radio operators. In fact,

anybody above 12 years can become a ham radio operator after passing a qualifying examination conducted by the Ministry of Communications, Government of India.

Angling

Angling is the act of fishing with a hook and line and usually a rod. Modern sportfishing can be divided into two basic categories: freshwater fishing and saltwater fishing. The three most common fishing tactics are bait fishing (often called still-fishing in North America and bottom fishing in England), spin fishing, and fly-fishing.

Bait fishing involves the use of live or dead bait on a hook, with a short rod, a reel, and heavy line. Depending on the species that the angler hopes to catch, the bait sits on the bottom where fish may feed, bobs up and down off the bottom so that the action may attract fish; or is reeled a good distance off the bottom to attract fish schooled at mid-depth. Anglers frequently tie a leader (a short length of steel wire or heavy nylon) between the hook and the regular nylon or Dacron fishing line to prevent the fish from biting through the line. Lines for all types of fishing come in various diameters or strengths, and anglers choose them according to the size and strength of the fish being sought.

Spin fishing, which uses a somewhat longer rod than bait fishing, is more often associated with artificial lures. Fly-fishing uses a rod much longer—up to 3 m (10 ft)—and lighter than rods used for bait and spin fishing. Dry-fly fishing uses flies that float on the top of the water; wet-fly fishing uses flies that sink.

Trekking

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Bird-watching

by K. J. Long

A birdwatcher's basic equipment includes binoculars, a field guide to help in identifying birds and a notebook for recording time and place of sightings. The publication of field guides from 1934 onwards gave a boost to the interest in birds. In fact, before 1900, most students had to shoot birds to study them.

The best places to observe birds are parks and gardens. You have to sit quietly and try to keep out of sight. Watch patiently and note down the colours, shape and behaviour of different types of birds and the time and place you saw them.

The chief elements of bird-watching involve the study of their habitat, flight, feeding, courtship, nests, dispersal and communication. Some birds live in the same place all year round, while others fly the length of the Earth to a new home every year. Some birds specialise in eating plant food (fruits, nuts and seeds) and

others eat honey. Some have a diet consisting of insects. Some are hunters who feed on animals including snakes and fish. Large birds, like a swan, have up to 25,000 feathers. Feathers are made of a protein called keratin. The bird's dominant sense is sight, smell the poorest.

Birds fly in different ways. Albatrosses soar and glide on rising currents of air. Humming birds hover in front of flowers by beating their wings an incredible 90 times a second. Birds use their beaks for catching, breaking open or holding onto food and for preening and for building nests. A bird's diet depends on where it lives and what food is available. Birds use their feet for walking, running, gripping and tearing food, climbing, swimming and preening their feathers. Some birds like owls are active during the night. Birds use their voices in calls and songs, which are used to establish and defend territory, as warnings, to identify other birds in a group and in courtship.

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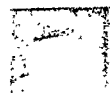
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